

EDITION  
ONE



# THE ESSENTIAL

## *Optical Product Guide*



**OPTICAL VISION LTD**  
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DISCOVER NEW IMAGING HORIZONS

ASTRONOMICAL TELESCOPES | BINOCULARS | SPOTTING SCOPES | TRIPODS | MICROSCOPES



When Galileo built his first telescope in 1609, he began a journey of cosmic exploration, which thousands of interested sky-gazers have embarked upon since.

His telescope was a crude refractor, giving around 20x magnification, smaller and optically far inferior to even children's telescopes of today, yet the views revealed through it were as wondrous to him as those of the Hubble Space Telescope are to us today, nearly 400 years later. Maybe even more so. In his journal, he wrote after his few nights of wonder;

**'I render infinite thanks to God, for being so kind as to make me alone the first observer of marvels kept hidden in obscurity for all previous centuries.'**

Imagine how that must have been, being the first person ever to see the craters and mountains of the Moon, the glorious rings of Saturn, the dancing moons of Jupiter, as well as hundreds of other stars and celestial mysteries not even visible to the naked eye. There is something about a "live" view through a telescope that is very difficult to capture in photographs, no matter how spectacular. What is it? Is it the crystal clarity? Is it the crisp resolution and brightness? Is it the simple fact that your celestial destination is before your eyes clearly and presently right in this moment? Whatever it is, it has attracted people to astronomy for centuries, and never more so in the past decade.

Modern telescope making has advanced the simple designs of Galileo and Isaac Newton (inventor of the reflector telescope) to state-of-the-art, and prices have dropped considerably, making telescopes of excellent optical quality available to everyone. Owning a telescope today is an investment in wonder, excitement and enjoyment. Whether you are pursuing a serious career in advanced astronomy or you simply like to be out under a night sky awash with stars, piloting your own imaginary starship through the galaxy and beyond, a telescope can help you begin the journey. For a relatively small outlay you will have a scope capable of wonderful tours of the solar system and beyond. When you look through the eyepiece as the rings of Saturn come into focus, whether it's for the first time or the hundredth time, chances are, you will pause for a moment, and say,

### 'Wow'

*Picture taken through Sky-Watcher 80/400 Refractor (Startravel-80)*

*Photo courtesy of William Ronald, Vancouver, BC, Canada*

*(Warning: Specialist Safety Filtering should always be used when directly viewing the Sun)*

## INTRODUCTION

A telescope is an optical instrument, which brings distant objects closer for examination. It usually consists of a tube containing the optics, and a mounting with a tripod to point it at its target. The optical tube consists of an objective (either a mirror or lens), which gathers light and focuses it to an image, and an eyepiece, which magnifies the image for the eye to see.

There are two applications for a telescope: spotting terrestrial objects during the day, and studying astronomical objects at night. Although any telescope may be used for either, there are certain features desirable for each.

Since the astronomical telescope is used at night to observe faint objects, it is advantageous to have a larger diameter objective to ensure greater light transmission. The objective can be a lens (refractor), or a mirror (reflector), or a combination of both (catadioptric). The larger the objective is, the greater the brightness and resolution will be, so telescopes with larger objectives can be used at higher magnifications usually with much better results.

### TELESCOPE MAGNIFICATIONS

As a general rule of thumb, a telescope is capable of magnifying an object approximately 50x-75x per inch (or 2x-3x per mm) of aperture (objective diameter), so a 4" (100mm) telescope has the potential to magnify approximately 200x-300x.

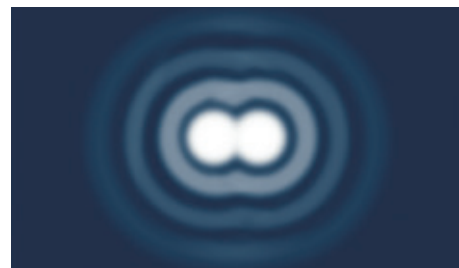
The optical quality, configuration of the telescope and seeing conditions however, will be deciding factors as to what useful magnification a particular telescope can achieve. Atmospheric turbulence usually restricts practical magnifications to a maximum limit of about 300x, or slightly more in rare cases. Above the magnification limit, the image becomes too blurry for useful observing. It should be carefully noted that for many astronomical observations high magnifications are not necessary and much better results are often achieved by using lower power. The telescopes described in this catalogue are all supplied with various combinations of eyepieces and in some cases a Barlow lens. The magnification ranges quoted for many of the telescopes in this catalogue are simply those achievable with the standard accessories, and can be increased or decreased as necessary with the addition of the optional accessories that are described later in the catalogue, within the optimum boundaries of the telescopes capability.



Left: Moon at appropriate magnification under good sky conditions. Right: Above the magnification limit, the image becomes too blurry for useful observing.

### RESOLUTION

The most important factors in a telescope are the aperture (or light gathering capability), and the quality and accuracy of their optics. The aperture determines the telescope's ability to resolve small or distant objects and to reveal fine detail. Resolution can be defined as how much detail a particular telescope can see. If the diameter of the aperture is twice as big on a similar quality telescope, then the resolving power should be twice as good. Resolution is stated in arc-seconds and there are sixty arc-seconds in an arc-minute and sixty arc-minutes in a degree. In short: The bigger the aperture, the higher the resolution and therefore the better the image!!!



The resolving power of a telescope can be described as its ability to separate two closely related stars into their Airy Disks.

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$$\text{F\#ratio} = \frac{\text{Focal length of the telescope}}{\text{Aperture of the telescope}}$$

$$\text{Highest Practical Power} = \frac{2x \text{ per aperture in mm}}{\text{or}} \frac{50x \text{ per aperture in inch}}$$

$$\text{Magnification} = \frac{\text{Focal length of the telescope}}{\text{Focal length of the eyepiece}}$$

$$\text{Resolving Power} = \frac{116}{\text{Aperture in mm}} \text{ or } \frac{4.54}{\text{Aperture in inch}} \text{ (Dawe's Limit)}$$

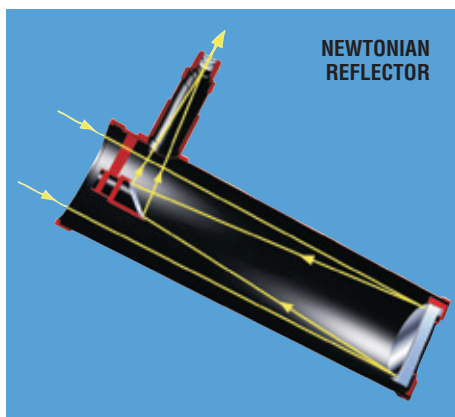
$$\text{True Field of View} = \frac{\text{Eyepiece Apparent Field}}{\text{Magnification}}$$

$$\text{Exit Pupil} = \frac{\text{Aperture of the telescope}}{\text{Magnification}}$$

\*To calculate the magnification using a Barlow lens, use the formula (above) and multiply the result by the magnification of the Barlow lens, x2, x3 etc. By using the magnification formula, one can calculate what accessories (eyepieces, Barlow lenses etc.) could be purchased for a telescope to achieve a greater range of useful magnifications than those achievable with the standard accessories supplied.

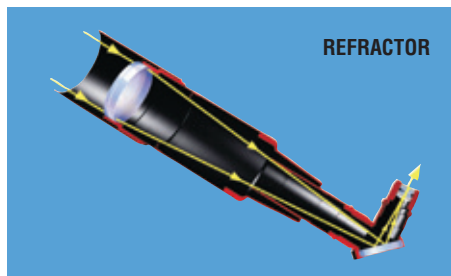
## THE NEWTONIAN REFLECTOR

This most common type of reflector telescope uses a concave objective mirror (primary mirror) at the back of the tube and a secondary mirror, which directs the light to the eyepiece. Since the light rays entering the telescope reflect off the mirrors and don't pass through the glass, no false colour is produced. Orientation of the image is not important for astronomy so the image is left uncorrected. The Newtonian reflector represents excellent value for money as typically they offer more aperture for a given price than other types of telescope.



## THE REFRACTOR

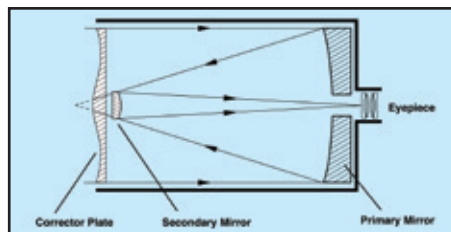
Refracting telescopes have an objective lens at the front of the tube. The light exits out through the back of the tube to the eyepiece. Since many observations are made high in the sky, a right-angle diagonal is used to avoid neck strain. This also provides an upright image making them suitable for terrestrial observations. A refractor has several advantages over other designs. The tubes are enclosed so that dust and moisture do not enter the tube, they have fixed optics that do not normally require collimation, and they do not have a central obstruction which reduces the light entering the tube. A refractor typically will give higher quality images of planets than other telescopes of similar aperture.



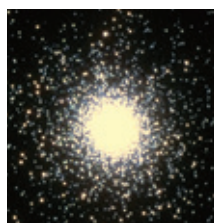
## THE CATADIOPTRIC

Telescopes using a combination of both mirrors and lenses are called catadioptrics. There are many different designs. One example is the optically excellent Maksutov-Cassegrain design. Usually a full aperture lens is used to correct aberrations in a compound reflecting telescope. The corrector lens also increases the performance of the instrument as air currents are eliminated. The main advantage of the design is that, because the light path is folded back on itself, it provides a very portable, short physical length telescope with a long focal length.




### CATADIOPTRIC



Astronomical Objects do not require a telescope with erecting views as there is no 'Up' or 'Down' in space.



### IMAGE ORIENTATIONS

-  Original image
-  Inverted image seen through a reflector
-  Mirror reversed image seen through a refractor

## TELESCOPE MOUNTINGS

A mounting with a tripod is necessary to point a telescope at its target, and to hold it there securely. A larger, sturdier mount is necessary for heavier telescopes. There are two basic types of mountings, and each is suitable for different applications.

### THE ALT-AZIMUTH MOUNT

The Alt-azimuth mounting is a simple system which moves in two directions; sideways, and up and down, and is sometimes provided with slow motion cable controls to accurately point the telescope. This type of mounting is ideal for terrestrial observations and can also be of use for basic astronomical observations.



### THE EQUATORIAL MOUNT

There are several different models of equatorial mount offered in this catalogue, and the principle of all of them is the same. That principle is to correct for the rotation of the Earth with one motion during astronomical observations. The Earth's rotation causes objects to rise in the East, follow a circular path across the sky and set in the West. When using an astronomical telescope at high power, it will only take approximately 30 seconds for the object to move out of the field of view. The equatorial mounting allows the telescope to track the objects and to keep the image in the centre of the eyepiece. When the equatorial mount is correctly aligned, tracking can be achieved either by turning a gear manually or with a motor drive which tracks objects automatically. Computerised, intelligent GO-TO versions are also available.





# Sky-Watcher®

Be amazed.

## ASTRONOMICAL TELESCOPES PERFORMANCE PRECISION & VALUE

Sky-Watcher is a First-Class, Market Leading telescope brand offering an incredible range of high quality astronomical telescopes and accessories, catering for users of all age groups and abilities, from the novice right up to the serious advanced astronomer. Sky-Watcher astronomical telescopes perfectly integrate modern optical technology with precision mechanical engineering, resulting in designs of superb functionality, versatility and uncompromising levels of performance.



### Sir Patrick Moore Endorsed Sky-Watcher Telescopes

*"I have used a great number of telescopes; some are good, some mediocre and some bad. To me the Sky-Watcher range of instruments are very good indeed, & suited to amateurs of all kinds – and they are not priced out of the market! Excellent value. Use them and enjoy them."*

**Sir Patrick Moore CBE FRS (1923-2012)**

**INFINITY-76P**  
Product Code: 10942



**NOT YOUR  
AVERAGE TOY  
TELESCOPE!!**

### INFINITY-76P 76mm (3") f/4 PARABOLIC NEWTONIAN REFLECTOR

The attractive Sky-Watcher INFINITY-76P telescope houses the Aspherical Technology usually only found in larger, more expensive telescopes. The primary mirror is altered during polishing to bring the light rays onto a common focal plane, resulting in sharp images full of detail. The INFINITY-76P collects 131% more starlight than the average 50mm toy telescope, bringing hundreds more objects into view. Its intuitive up-down, left-right manoevrability makes it a perfect user-friendly telescope for kids. Setting up the telescope is so easy that it is almost ready right out of the box, allowing your kids to easily explore the exciting universe to their hearts' content.

- Magnification: x30 • Diameter of Primary Mirror: 76mm • Telescope Focal Length: 300mm (f/4)
- Eyepiece Supplied: 30x Erecting\* (\*Provides upright image for terrestrial use)
- Parabolic Primary Mirror • Helical Focusing • Table-Top Cradle • Gift Box

Included in **The Independent** Ten Best Telescopes feature.  
Chosen by Robin Scagell Vice President of The Society for Popular Astronomy



**HERITAGE-76**  
Product Code: 10212



### HERITAGE-76 76mm (3") f/4 MINI DOBSONIAN

The Sky-Watcher Heritage-76 was specially designed to celebrate the International Year of Astronomy (IYA) and the 400th Anniversary of Galileo's first telescope. This is not only a highly functional precision optical instrument but also a beautiful collector's piece, desk or shelf ornament, and ideal gift.

- Magnifications (with eyepieces supplied): x12 & x30 • Diameter of Primary Mirror: 76mm
- Telescope Focal Length: 300mm (f/4) • Eyepieces Supplied (1.25"): 10mm & 25mm Super-MA
- Single-arm Secondary Mirror Support • 5x24 Finderscope • Rack and Pinion Focuser
- Wooden Alt-Azimuth Mount • Overall maximum height: 40cm • Weight Approx 1.75kg





**STARTRAVEL-80 TABLETOP**  
Product Code: 10730

**STARTRAVEL-80 TABLETOP**  
**80mm (3.1") f/5 ACHROMATIC REFRACTOR**

- Magnifications (with optics supplied): x16, x32, x40, x80
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- 90° Diagonal Mirror 1.25"
- Red Dot Finder • Table-Top EQ1 Mount
- Tripod Bush for Photo-Tripod Mounting
- Soft Carrying Bag

**HERITAGE-100P**  
**100mm (4") f/4**  
**PARABOLIC DOBSONIAN**

The compact Heritage-100P is a lightweight and convenient grab-and-go scope. With its quality 100mm f/4 parabolic optics, it can be used to view the Moon and Bright Planets and also has enough light gathering for the observation of Star Clusters, Bright Galaxies and Nebulae. Supplied with gift box.

- Magnifications (with optics supplied): x16, x32, x40, x80
- Diameter of Primary Mirror: 100mm
- Telescope Focal Length: 400mm (f/4)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow lens
- Parabolic Primary Mirror
- Red Dot Finder
- Rack and Pinion Focuser
- Wooden Alt-Azimuth Mount
- Weight Approx 2.8kg



**HERITAGE-100P**  
Product Code: 10245



**SKYMAX-90 TABLETOP**  
Product Code: 10669

**SKYMAX-90 TABLETOP**  
**90mm (3.5") f/13.8 MAKUTOV-CASSEGRAIN**

- Magnifications (with eyepieces supplied): x50, x100, x125, x250
- Diameter of Primary Mirror: 90mm
- 1.25"/31.7mm Star Diagonal
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- Red Dot Finderscope
- Tripod Bush for Photo-Tripod Mounting
- Tabletop EQ1 Mount
- Soft Carrying Bag

**HERITAGE-130P FLEXTUBE™**  
**130mm (5.1") f/5 PARABOLIC DOBSONIAN**

The Heritage-130P was specially designed to celebrate the International Year of Astronomy and the 400th Anniversary of Galileo's first telescope. The telescope tube is adorned with the names of many famous figures that have made significant contributions to the advancement of astronomy over this 400 year period. Housing the same superb Parabolic Primary Mirror as our highly-renowned Explorer-130P, this telescope is an excellent and capable all-rounder which will provide wonderful views of both the Moon & Planets as well as Deep-Sky Objects.

- Magnifications (with eyepieces supplied): x26 & x65 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): 10mm & 25mm • Single-arm Secondary Mirror Support
- Wooden Alt-Azimuth Mount • Red Dot Finder • Collapsible/Extendable Tube Assembly
- Overall maximum height: 46cm (collapsed), 69.5cm (ext) • Weight Approx 6.2kg
- Built-in Carrying Handle • 30% more Light Gathering than 114mm



**HERITAGE-130P**  
Product Code: 10213

## HERITAGE-114P VIRTUOSO™

### 114mm (4.5") f/4.4 AUTO-TRACKING PARABOLIC NEWTONIAN REFLECTOR

The Heritage-114P with its superb parabolic primary mirror provides excellent all-round performance for the observation of the Moon, Bright Planets and Deep-Sky objects. Its table top design offers excellent convenience and portability.

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm
- Parabolic Primary Mirror
- Telescope Focal Length: 500mm (f/4.38)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Rack and Pinion Focuser (1.25") • Red Dot Finder
- Virtuoso™ Computerised Multi-Function Mount
- Overall Weight Approx 5.3kg (mount 3.7kg), Dimensions 29x29x53cm

*"This plucky little machine has a wonderful can-do attitude, being both optically and mechanically very sound. It is easy to set up and control and can even be enhanced to fully GO-TO with the optional Synscan AZ handset (and cable)"*

ASTRONOMY NOW MAGAZINE

## HERITAGE-90 VIRTUOSO™

### 90mm (3.5") f/13.8 AUTO-TRACKING MAKSUTOV-CASSEGRAIN

The Heritage-90 packs a powerful punch and is ideal for observing the Moon, Bright Planets and Double-Stars, and also can be used for high power daytime terrestrial viewing. Its table top design offers excellent convenience and portability.

- Magnifications (with eyepieces supplied): x50 & x125
- Highest Practical Power (Potential): x180
- Diameter of Primary Mirror: 90mm
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- 90° Star Diagonal 1.25" • Red Dot Finder
- Virtuoso™ Computerised Multi-Function Mount
- Overall Weight Approx 5.1kg (mount 3.7kg), Dimensions 29x29x45cm



HERITAGE-114P VIRTUOSO™  
Product Code: 10240

FREEDOM FIND™



HERITAGE-90 VIRTUOSO™  
Product Code: 10241

## VIRTUOSO™ MOUNT FEATURES

The Virtuoso™ mount provides a stable platform and will track night sky objects automatically once located. The telescope can be slewed automatically in both axes, at five different speeds, via the mount's electronic keypad.

**Freedom-Find™ Technology:** A great feature of the Virtuoso™ is the patented dual-encoder technology which also allows the telescope to be moved manually in either axis without losing its alignment or positional information, giving the user enormous convenience and flexibility during observing sessions. As well as its superb astronomical functionality, the Virtuoso™ mount has a lot of other clever features for terrestrial photography (camera not included).

**Camera Cruising:** Take photographs automatically with your DSLR at up to 6 preset positions. The mount will stop at each predetermined position and automatically trigger the camera's shutter release. (Canon-EOS C1 electronic shutter release cable supplied but other Sky-Watcher cables are readily available from us for most popular DSLR cameras).

**Video Cruising/Time Lapse Photography:** The mount can automatically move your video camera through up to 6 preset positions without any pause. Up to 5 speeds can be selected in this mode (see below).

**Panoramic/Matrix Photography:** The mount can control a DSLR camera to take long distance panoramas up to 360°.

- DC Servo Motors, Driving Resolution 2.42 arc sec
- Payload Capacity 4kg
- Astronomical Tracking Speed: Sidereal Rate
- Slewing Speeds: 8x, 16x, 64x, 400x, >2000x Max
- Speeds in Time Lapse Mode:
  - 1xRotation/24hrs/6hrs/3hrs, 2.5°/sec, 1.2°/sec
- Supplied with L-Bracket and Canon-D Electronic Shutter Release Cable
- Telescope/Mount attachable to most Prosumer tripods via 3/8" thread
- Power Requirement: 12v DC 1 Amp Power Supply (Tip Positive).
- Sky-Watcher Power Tank Recommended or AA Batteries (not supplied)



**Sky-Watcher Electronic Shutter Release Cables**  
See page 79 for full list of Electronic Shutter ReleaseCables for the Virtuoso™ Mount.

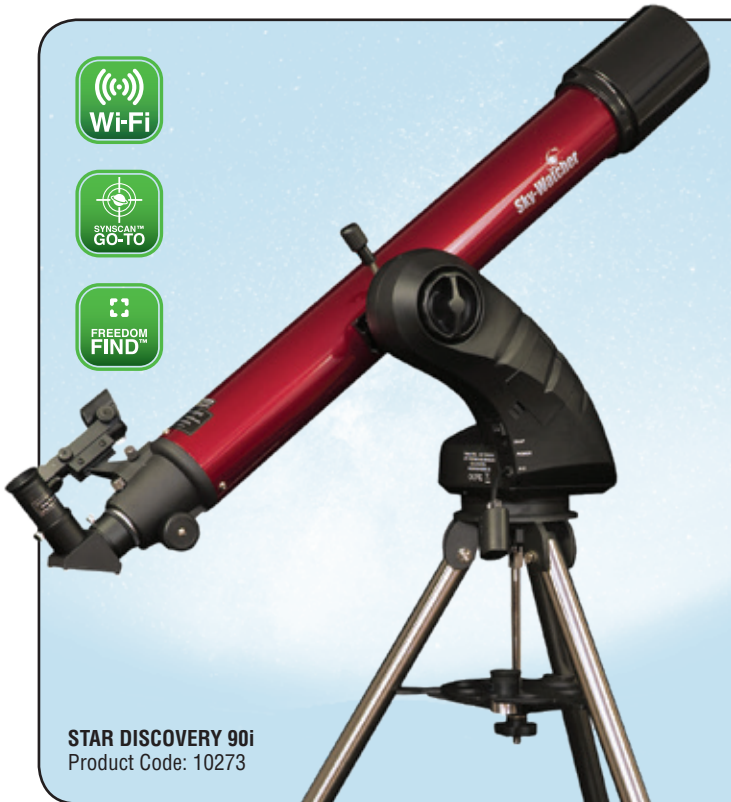
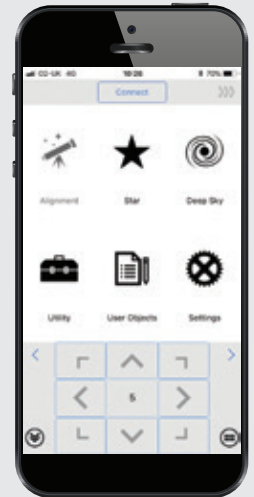


## STAR DISCOVERY Wi-Fi GO-TO TELESCOPES

These STAR DISCOVERY models have been designed to be controlled wirelessly with your Smartphone or Tablet, using the free SynScan™ App for iOS or Android. The Wi-Fi module creates its very own Wi-Fi network, so the mount can be used anywhere, without any reliance on other Wi-Fi or mobile networks. After entering your coordinates into the App and following a simple alignment procedure, you are ready to explore the universe using the App's intuitive touchscreen menu. The SynScan™ App provides full computerised GO-TO control, allowing the telescope to be automatically slewed to any one of the objects in the App's extensive database of 10,000+ celestial objects. Incorporates Sky-Watcher's Freedom-Find™ patented Dual-Encoder Technology, which allows the telescope to be moved manually in either axis without the mount losing its positional information. This gives the user enormous freedom, convenience and flexibility during observational sessions. Star Discovery telescopes can also be operated with a Synscan™ Computerised Handset and Cable (Product Code 20948/20160) which are available separately.

### SYNSCAN™ APP FEATURES

- SynScan™ App Database: Total 10,000+ Objects. Deep Sky Objects: 10759, including Messier, NGC, IC, Caldwell Catalogues, Named DSOs, Named Stars: 305, Double Stars: 55, Solar system objects: 7 planets, Sun, Moon. (Unlimited objects when working with a 3rd party planetarium software).
- SynScan™ App Alignment Method: Brightest Star Alignment, North-Level Alignment
- SynScan™ App's Other Features: Tonight's Best Sky Tour, Point and Go with a mobile device, Identification of Celestial Objects, Remote control over Internet, User defined objects, Pointing Accuracy Enhancement (PAE)



**STAR DISCOVERY 90i**  
Product Code: 10273

## STAR DISCOVERY 90i 90mm (3.5") f/10 Wi-Fi GO-TO REFRACTOR

The STAR DISCOVERY 90i is a classic two-element, air-spaced, achromatic refractor. With its long focal length it is ideal for the detailed high-power study of the Moon, Planetary Surfaces and other objects in our Solar System, providing crisp, contrasty images.

- Magnifications (with eyepieces supplied): x36 & x90
- Highest Practical Power (Potential): x180
- Objective Lens Diameter: 90mm
- Telescope Focal Length: 900mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- 90° Star Diagonal • 1.25" Rack & Pinion Focuser
- Star Discovery AZ Go-To Alt-Azimuth Go-To Mount with Dual-Axis Tracking
- Synscan™ Wi-Fi Adaptor Module (will change to internal Wi-Fi module)
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or 8 x AA Batteries (not supplied)
- Sky-Watcher 7Ah or 17Ah Power Tank Recommended
- Stainless Steel Tripod with Accessory Tray
- 65% more Light Gathering than 70mm

## STAR DISCOVERY P150i 150mm (6") f/5 Wi-Fi GO-TO PARABOLIC NEWTONIAN REFLECTOR

With an extremely useful 150mm of light gathering aperture and a superb Parabolic primary mirror the STAR DISCOVERY P150i is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with eyepieces supplied): x30 & x75
- Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Parabolic Set Primary Mirror
- Red Dot Finder • 1.25" Rack & Pinion Focuser
- Star Discovery AZ Go-To Alt-Azimuth Go-To Mount with Dual-Axis Tracking
- Synscan™ Wi-Fi Adaptor Module (will change to internal Wi-Fi module)
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or 8 x AA Batteries (not supplied)
- Sky-Watcher 7Ah or 17Ah Power Tank Recommended
- Stainless Steel Tripod with Accessory Tray
- 33% more Light Gathering than 130mm



**STAR DISCOVERY P150i**  
Product Code: 10275

## AZ-GTe & AZ-GTi Wi-Fi GO-TO TELESCOPES

With their built-in Wi-Fi modules, these mounts have been designed to be controlled wirelessly with your Smartphone or Tablet, using the free SynScan™ App for iOS or Android. The mounts create their very own Wi-Fi network, so the mount can be used anywhere, without any reliance on other Wi-Fi networks. After entering your coordinates into the App and following a simple alignment procedure, you are ready to explore the universe using the App's intuitive touchscreen menu. The SynScan™ App provides full computerised GO-TO control to the AZ-GTe and AZ-GTi, allowing your telescope to be automatically slewed to any one of the objects in the App's extensive database of 10,000+ celestial objects.

(Please Note: The AZ-GTe and AZ-GTi mounts are identical, except the AZ-GTi additionally has Freedom-Find™ dual encoders installed, which allows the mount to be moved manually without losing its alignment or positional information)



**MERCURY-707 (AZ-GTe)**  
Product Code: 10276

### MERCURY-707 (AZ-GTe) 70mm (2.75") F/10 Wi-Fi GO-TO REFRACTOR

The MERCURY-707 is a proven two-element, air-spaced achromatic refractor with a 70mm multi-coated objective lens, and will provide rewarding views of the Moon, Stars, Bright Planets and other night sky objects.

- Magnifications (with optics supplied): x28 & x70 • Highest Practical Power (Potential): x140
- Objective Lens Diameter: 70mm • Telescope Focal Length: 700mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 90° Star Diagonal (1.25")
- Adjustable Aluminium Tripod with Accessory Tray • Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 6.00kg • 36% more Light Gathering than 60mm

### STARTRAVEL-102 (AZ-GTe) 102mm (4") F/4.9 Wi-Fi GO-TO REFRACTOR

The STARTRAVEL-102 is a two-element, air-spaced achromatic refractor and a well proven performer for 'Rich-Field' views of Comets, Star Fields, Star Clusters, Nebulae, Bright Galaxies/Planets, & the Moon.

- Magnifications (with optics supplied): x20 & x50
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 90° Star Diagonal (1.25")
- Adjustable Aluminium Tripod with Accessory Tray
- Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 6.65kg
- 62.5% more Light Gathering than 80mm



**SKYHAWK-1145PS (AZ-GTe)**  
Product Code: 10278

### SKYHAWK-1145PS (AZ-GTe) 114mm (4.5") F/4.4 Wi-Fi GO-TO PARABOLIC NEWTONIAN

With a useful 114mm of light gathering aperture and a superb parabolic primary mirror, the SKYHAWK-1145PS is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with optics supplied): x20 & x50
- Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm
- Telescope Focal Length: 500mm (f/4.4)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • Adjustable Aluminium Tripod with Accessory Tray
- Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 6.65kg
- 125% more Light Gathering than 76mm



**STARTRAVEL-102 (AZ-GTe)**  
Product Code: 10277



*"Overall it was a pleasure to explore the night sky with the Startravel-102 AZ-GTe. If you're not familiar with smart devices there's the option of purchasing a Synscan handset, but for those comfortable with the connected world, this is a smart new system"*

**BBC SKY AT NIGHT MAGAZINE**



## EXPLORER-130PS (AZ-GTi)

Product Code: 10266



## EXPLORER-130PS (AZ-GTi)

### 130mm (5.1") f/5 Wi-Fi GO-TO PARABOLIC NEWTONIAN

With an extremely useful 130mm of light gathering aperture and a superb parabolic primary mirror, this is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with optics supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- Adjustable Aluminium Tripod with Accessory Tray
- Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 6.65kg
- 30% more Light Gathering than 114mm

### FEATURES OF AZ-GTe & AZ-GTi

- Controller: Free SynScan™ App for iOS and Android mobile device or Synscan Hand Controller (available separately)
- Pointing Accuracy: Up to 10 arc-minute (RMS)
- Resolution: 2073600 Counts/Rev., 0.625 arc-second
- Resolution of Aux. R.A./Dec. Axis Encoders: 1068 Counts/Rev., approx. 20 arc-minutes
- Freedom-Find™ Dual-Encoder Technology (AZ-GTi models only)
- Tracking Rates: Sidereal, Lunar, Solar, Alignment-Free Solar Tracking
- Slewing Speeds: 0.5X, 1.0x, 8.0x, 16x, 32x, 64x, 128x, 400x, 800x
- Tracking Mode: Dual Axis Tracking
- Motor: DC Servo Motor, Gear Ratio 6480
- Interface: SynScan™ Hand Control Port, DSLR Shutter Release Port (optional cables available separately), Built-in Wi-Fi Module
- Connectivity: ASCOM platform for Windows PC, Mobile planetarium App for iOS and Android (SkySafari Plus/Pro, more are coming).
- Mount/Tripod 3/8" standard tripod screw thread connection
- 45mm Sky-Watcher/Vixen type dovetail saddle
- Power Requirement: 8 AA Size Batteries (not supplied) or External Power Supply (DC 7.5-14V, 0.75A) Tip Positive.
- Sky-Watcher 7Ah or 17Ah Power Tank Recommended.

## SKYMAX-102 (AZ-GTi)

### 102mm (4") f/12.7 Wi-Fi GO-TO MAKSUTOV-CASSEGRAIN

The compact Maksutov's high-resolution multi-coated optical system, excels at medium-to-high powers for the examination of the surface detail of the Moon, Bright Planets and also for Double-Star observations.

- Magnifications (with optics supplied): x52 & x130
- Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm
- Telescope Focal Length: 1300mm (f/12.7)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- 90° Star Diagonal (1.25")
- Adjustable Aluminium Tripod with Accessory Tray
- Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 5.75kg
- 28% more Light Gathering than 90mm



## SKYMAX-102 (AZ-GTi)

Product Code: 10264



*"The SynScan GoTo system performs superbly; (App) screens are easy to follow and wonderful to use. There are no battles of confusion; data is presented in a very user-friendly fashion and each screen almost strains to be helpful....." I really liked using this kit. It is rapidly deployable and the SynScan (App) software is well designed. Zipping around the sky and visiting all manner of objects presented it with no challenges."*

ASTRONOMY NOW MAGAZINE

### SYNSCAN™ APP FEATURES

- SynScan™ App Database: Total 10,000+ Objects. Deep Sky Objects: 10759, including Messier, NGC, IC, Caldwell Catalogues, Named DSOs, Named Stars: 305, Double Stars: 55, Solar system objects: 7 planets, Sun, Moon. (Unlimited objects when working with a 3rd party planetarium software).
- SynScan™ App Alignment Method: Brightest Star Alignment, North-Level Alignment
- SynScan™ App's Other Features: Tonight's Best Sky Tour, Point and Go with a mobile device, Identification of Celestial Objects, Remote control over Internet, User defined objects, Pointing Accuracy Enhancement (PAE)



## SKYMAX-127 (AZ-GTi)

Product Code: 10265



## SKYMAX-127 (AZ-GTi)

### 127mm (5") f/11.8 Wi-Fi GO-TO MAKSUTOV-CASSEGRAIN

The compact but powerful telescope is ideal for the observation of Double-Stars, and the surface detail of the Moon & Bright Planets. Its high-resolution, long focal length optical system is multi-coated to maximise contrast and image sharpness.

- Magnifications (with optics supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- 90° Star Diagonal (1.25")
- Adjustable Aluminium Tripod with Accessory Tray
- Height of Tripod/Mount (excl. OTA): 80.5cm - 152cm
- Total Weight with Tripod: 7.45kg
- 55% more Light Gathering than 102mm



*"This is a fun system to use. Although there is an option to connect a SynScan hand controller, to get the most of this setup its worth downloading the SynScan app for your smartphone. The SkyMax-127 feels like the future of telescope control, certainly for anyone that likes technology and is just beginning their exploration of the sky"*

BBC SKY AT NIGHT MAGAZINE

## SYNSCAN™ AZ GO-TO COMPUTERISED TELESCOPES

The Sky-Watcher SynScan™ Alt-Azimuth Go-To Mount will allow you to Easily Find and enjoy viewing Night Sky Treasures, such as Planets, Nebulae, Star Clusters, Galaxies and much more. The computerised SynScan™ AZ hand control allows you point your telescope at a specific object, or even Tour the Night Sky at the touch of a button!!

The User-Friendly menu system allows automatic slewing to over 42,900+ objects. Even an inexperienced astronomer can master its variety of features in a few observing sessions. Combined with telescope OTA's of proven High Quality, these Superb Packages are all you need to Explore the Universe to your Heart's Content!!

*"Even without being particularly careful about initial set-up, the mount repeatedly performed well in all Go-To tests... The SynScan AZ swiftly and reliably found every requested random object over the entire visible hemisphere, with a pointing error never exceeding 0.3 degrees... Quieter in operation than the competing Celestron SLT mount and equally capable of external computer control... The new SynScan AZ incorporates all the key features, upgradeable feature set and ease of use as Sky-Watcher's more expensive Go-To mounts in a sturdy, single-arm fork package, weighing less than 4.5kg (including tripod) and with an impressive targeting accuracy... Highly recommended"*

**Astronomy**  
**HOT**  
Product

ASTRONOMY NOW MAGAZINE

### SKYHAWK-1145P SYNSCAN™ AZ GO-TO 114MM (4.5") F/4.4 COMPUTERISED PARABOLIC NEWTONIAN REFLECTOR

This telescope with its superb Parabolic optics provides excellent all-round performance for both the observation of the Moon & Planets and Deep-Sky objects.

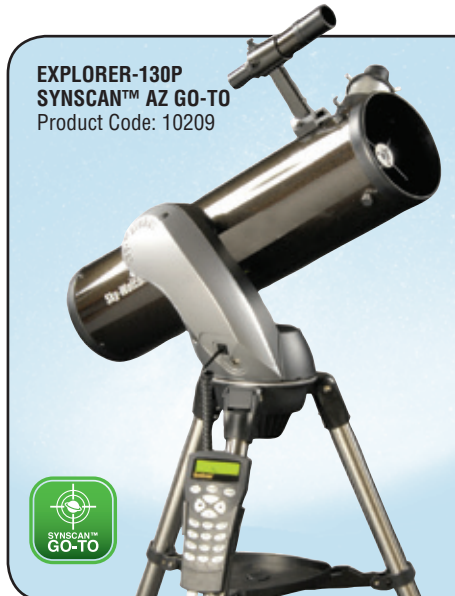
- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x228 • Diameter of Primary Mirror: 114mm
- Telescope Focal Length: 500mm (f/4.38) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 0.5mm Ultra-Thin Secondary Mirror Supports • 6x24 Finderscope • 1.25" Rack & Pinion Focuser
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray



**SKYHAWK-1145P**  
**SYNSCAN™ AZ GO-TO**  
Product Code: 10208

*"The optics were so good...captures star clusters and brighter nebulae beautifully under dark skies"*

ADE ASHFORD,  
WWW.SCOPETEST.COM



**EXPLORER-130P**  
**SYNSCAN™ AZ GO-TO**  
Product Code: 10209

### EXPLORER-130P SYNSCAN™ AZ GO-TO 130MM (5.1") f/5 COMPUTERISED PARABOLIC NEWTONIAN REFLECTOR

Fantastic performance from this highly capable all-rounder. Its precision Parabolic primary mirror captures 30% more precious starlight than a 114mm reflector for bright, sharp, contrasty views of a wide range of night sky objects.

- Magnifications (with optics supplied): x26, x52, x65, x130 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports • 6x30 Finderscope • SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- 2" Rack & Pinion Focuser with 1.25" adaptor
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray
- 30% more Light Gathering than 114mm

*"Its sharp optics and relatively small central obstruction ensure s that it delivers bright, diffraction-limited images...can view a true field in excess of 2°...will give you memorable views of the Moon and bright planets...In short, it's a great all-rounder in its class"*

ADE ASHFORD, WWW.SCOPETEST.COM

*"I was most impressed by the views revealed by the 'scope during tests...Despite a phase of nearly 96 percent, the waxing gibbous Moon revealed a seemingly inexhaustible amount of fine detail"*

ASTRONOMY NOW MAGAZINE

### STARTRAVEL-102 SYNSCAN™ AZ GO-TO 102MM (4") f/4.9 COMPUTERISED REFRACTOR

An ideal instrument for the wide-field observation of Deep-Sky objects, such as Nebulae, Star Fields & Clusters and Galaxies. A useful telescope for astrophotography and also for daytime terrestrial use.

*"We quickly set up and aligned the scope with the help of the instructions...The SynScan Go-To computer efficiently located all the objects we set it to, putting them close to the centre of the wide-field view. The quality of the view was good and the light-grasp of the 4-inch main objective lens gave us good views of all types of object, from galaxies such as M31 to nebulae such as the Dumbell Nebula and star clusters like the Pleiades. Overall, this is a nice package that does the job."*

BBC SKY AT NIGHT MAGAZINE

- Magnifications (with optics supplied): x20, x40, x50, x100 • Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm • Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied (1.25"): 10mm & 20mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • Fully Multi-Coated Objective Lens • 45° Erect Image Diagonal (1.25")
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray



**STARTRAVEL-102**  
**SYNSCAN™ AZ GO-TO**  
Product Code: 10207

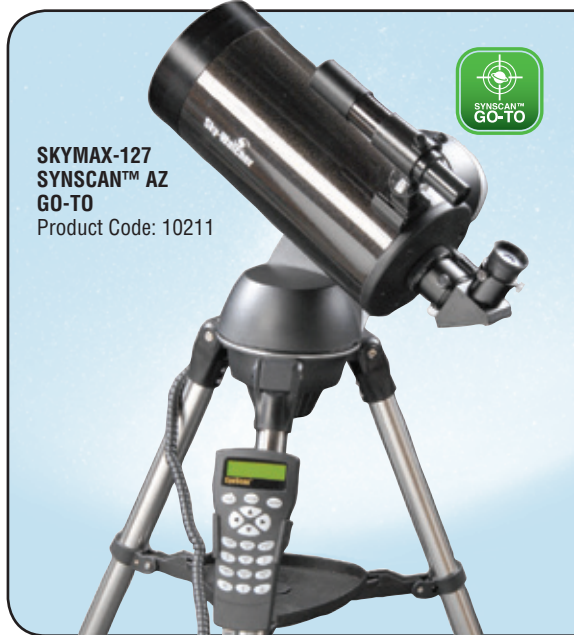




## SKYMAX-102 SYNSCAN™ AZ GO-TO 102mm (4") f/12.7 COMPUTERISED MAKSTOV CASSEGRAIN

This compact telescope, with its high-resolution multi-coated optical system, excels at medium-to-high-powers for the examination of the surface detail on the Moon, planets and also for double-star observations. Also useful for terrestrial use.

- Magnifications (with optics supplied): x52, x104, x130, x260 • Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm • Telescope Focal Length: 1300mm (f/12.7)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • 90° Star Diagonal (1.25") • SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray



**SKYMAX-127  
SYNSCAN™ AZ  
GO-TO**  
Product Code: 10211

*"Delivers high-contrast, pin-sharp views one has become accustomed to with Sky-Watcher Maksutovs."*  
**ASTRONOMY NOW MAGAZINE**



**SKYMAX-102  
SYNSCAN™ AZ  
GO-TO**  
Product Code: 10210

## SKYMAX-127 SYNSCAN™ AZ GO-TO 127mm (5") f/11.8 COMPUTERISED MAKSTOV-CASSEGRAIN

A larger version of the SkyMax-102 providing a massive 55% more light-gathering power, and packing an even more powerful punch than its smaller cousin for medium-to-high-power work.

*"This is one of the jewels in Sky-Watcher's crown. Its large enough to produce richly detailed, high-contrast Lunar and Planetary images...The SkyMax-127 packs a performance punch with a relatively short cool-down time....For daytime terrestrial use, the instrument is quite capable of focusing down to 8 metres"*  
**ADE ASHFORD, WWW.SCOPETEST.COM**

- Magnifications (with optics supplied): x60, x120, x150, x300 • Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm • Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 6x30 Finderscope • 90° Star Diagonal (1.25")
- SynScan™ AZ Go-To Computerised Alt-Azimuth HD Go-To Mount
- Power Requirement: 12v DC 1Amp Power Supply (Tip Positive) or AA Batteries (not supplied)
- Stainless Steel Tripod with Accessory Tray • 55% more Light gathering than 102mm

## SKY-WATCHER POWER TANKS

These extremely portable 12v rechargeable power supplies are highly recommended for use with all SynScan™, SynTrek™ and AutoTracking mounts.

(See page 60 for full details.)



**7Ah POWER TANK**  
Product Code: 20153

**17Ah POWER TANK**  
Product Code: 20154

### Main Features:

- SynScan™ Database: Total 42,900+ Objects, including Complete M, NGC, IC & SAO Catalogues
- Pointing Accuracy Enhancement (PAE) feature • Alignment Method: Two-star or Brightest star alignment
- Unknown Object Identification feature • Pointing Accuracy up to 10 arc min • Quiet Operation
- Tracking Mode: Dual Axis Tracking • Tracking Rates: Sidereal, Lunar, Solar
- Slewing Speeds: 1.0x, 2.0x, 16x, 32x, 64x, 128x, 400x, 500x, 600x, 800x
- Motor Type & Resolution: DC Servo Motors. Resolution 0.8923 arc sec or 1,452,425 steps/rev
- PC Compatible: can be used with popular Planetarium Software
- SynScan Handset Firmware upgradeable via the Internet
- Power Requirement: 12v DC Power Supply (Tip Positive) or AA Batteries (not supplied)

## SYNSCAN™ Wi-Fi ADAPTOR

The SynScan Wi-Fi Adaptor Module enables all of Sky-Watcher's Go-To mountings and telescopes to be controlled wirelessly from your smartphone or tablet using either the SynScan App or SynScan PRO App, which are available for free download from either the Google Play or App Store. Wireless control is also possible via ASCOM from a PC.

The Wi-Fi adaptor module easily connects to the mount's hand control port with one of the supplied RJ12 to RJ45 or RJ45 to RJ45 cables. No batteries are required as the operating current is provided by the mount. The Wi-Fi adaptor module creates its very own Wi-Fi network, so the mount can be used anywhere, without any reliance on other Wi-Fi or mobile networks.



Product Code: 20318

## AZ PRONTO & AZ5 ALT-AZIMUTH TELESCOPES

These lightweight and highly portable grab-and-go telescope ranges combine the thoughtfully designed and well-engineered AZ PRONTO and AZ5 DELUXE Alt-Azimuth mounts with proven Sky-Watcher optics.

Each model is supplied with two manual flexible slow-motion cables, for easy vertical and horizontal fine motion control. Tracking is smooth and precise via their continuous worm-gear movements. The mounts can also be moved around each axis manually, for rapid panning and elevation adjustments.

It is often said that the best telescopes are the ones which get used most often - These new ranges are quick to assemble and extremely easy to use with their convenient, uncomplicated simplicity that will encourage both beginners and seasoned observers to use them again and again!



**SKYMAX-102  
(AZ PRONTO)**  
Product Code: 10270

### SKYMAX-102 (AZ PRONTO) 102mm (4") f/12.7 ALT-AZIMUTH MAKSTOV-CASSEGRAIN

The compact but powerful SKYMAX-102 is ideal for the observation of double-stars, and the surface detail of the Moon and Bright Planets. Its high-resolution, long focal length optical system is multi-coated to maximise contrast and image sharpness. The supplied erect image diagonal provides an upright, fully corrected image allowing the telescope to be also used for terrestrial observing.

- Magnifications (with eyepieces supplied): x52 & x130 • Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm • Telescope Focal Length: 1300mm (f/12.74)
- Eyepieces Supplied: 10mm & 25mm • 6x30 Finderscope • 90° Erect Image Diagonal 1.25"
- AZ PRONTO Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle: 360° (Azimuth), -70° to +90° (Altitude) • Height Range of Tripod/Mount (excl. OTA): 78.5cm - 150cm • Total Overall Weight: 5.85kg • 28% more Light Gathering than 90mm

### EXPLORER-130PS (AZ PRONTO) 130mm (5.1") f/5 ALT-AZIMUTH PARABOLIC NEWTONIAN

With an extremely useful 130mm of light gathering aperture and a superb parabolic primary mirror, the EXPLORER-130PS is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with eyepieces supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied: 10mm & 25mm
- Red Dot Finder
- AZ PRONTO Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle: 360° (Azimuth), -70° to +90° (Altitude)
- Height Range of Tripod/Mount (excl. OTA): 78.5cm - 150cm • Total Overall Weight: 6.6kg
- 30% more Light Gathering than 114mm



**EXPLORER-130PS  
(AZ PRONTO)**  
Product Code: 10272



**EVOSTAR-90  
(AZ PRONTO)**  
Product Code: 10271



### EVOSTAR-90 (AZ PRONTO) 90mm (3.5") f/10 ALT-AZIMUTH REFRACTOR

The Sky-Watcher EVOSTAR-90 is a classic two-element, air-spaced, achromatic refractor. With its long focal length it is ideal for the detailed high-power study of the Moon, Planetary Surfaces and other objects in our solar system, providing crisp contrasty images. The supplied erect image diagonal provides an upright, fully corrected image allowing the telescope to be also used for terrestrial observing.

- Magnifications (with eyepieces supplied): x36 & x90
- Highest Practical Power (Potential): x180
- Objective Lens Diameter: 90mm
- Telescope Focal Length: 900mm (f/10)
- Eyepieces Supplied: 10mm & 25mm
- 6x30 Finderscope
- 90° Erect Image Diagonal 1.25"
- Multi-Coated Objective Lens
- AZ PRONTO Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle: 360° (Azimuth), -70° to +90° (Altitude)
- Height of Tripod/Mount (excl. OTA): 78.5cm - 150cm • Total Overall Weight: 6.25kg
- 65% more Light Gathering than 70mm

*"A telescope will see a lot of use if it is easy to operate and can be set up without a lot of fuss. The Evostar-90 AZ PRONTO fits the bill for both: we found it easy to assemble and, at a combined weight of 6.25kg, light enough to lift as a single unit"*  
**BBC SKY AT NIGHT MAGAZINE**



**EXPLORER-130PS (AZ5)**  
Product Code: 10260



**EXPLORER-130PS (AZ5)**  
**130mm (5.1") f/5 DELUXE ALT-AZIMUTH PARABOLIC NEWTONIAN**

With an extremely useful 130mm of light gathering aperture and a superb parabolic primary mirror, the EXPLORER-130PS is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with eyepieces supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied: 10mm & 25mm
- Red Dot Finder
- AZ5 Deluxe Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle (Continuous): 360° (Azimuth), -50° to +90° (Altitude)
- Height Range of Tripod/Mount (excl. OTA): 86.5cm - 158.5cm
- Total Overall Weight: 7.65kg
- 30% more Light Gathering than 114mm

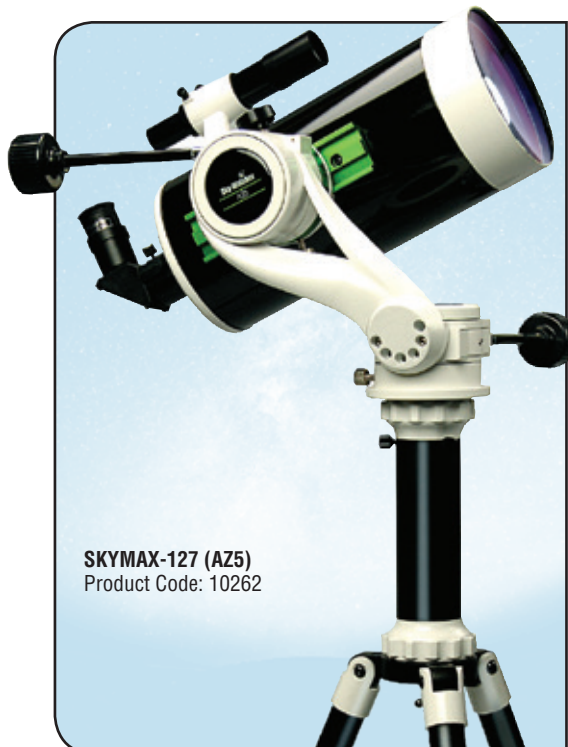


**STARTRAVEL-102 (AZ5)**  
**102mm (4") f/4.9 DELUXE ALT-AZIMUTH REFRACTOR**

The STARTRAVEL-102 is a two-element, air-spaced achromatic refractor and a well proven performer for 'Rich-Field' views of comets, Star Fields, Star Clusters, Nebulae, Bright Galaxies & Planets, the Moon and the Sun (with proper safety filtering!). The supplied erect image diagonal provides an upright, fully corrected image allowing the telescope to be also used for terrestrial observing.

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied: 10mm & 25mm
- Direct SLR Camera Connection
- Dual-Fit 1.25"/2" Focuser
- 6x30 Finderscope
- 90° Erect Image Diagonal 1.25"
- Multi-Coated Objective Lens
- AZ5 Deluxe Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle (Continuous): 360° (Azimuth), -50° to +90° (Altitude)
- Height Range of Tripod/Mount (excl. OTA): 86.5cm - 158.5cm
- Total Overall Weight: 7.5kg
- 62.5% more Light Gathering than 80mm

**STARTRAVEL-102 (AZ5)**  
Product Code: 10261



**SKYMAX-127 (AZ5)**  
Product Code: 10262

**SKYMAX-127 (AZ5)**  
**127mm (5") f/11.8 DELUXE ALT-AZIMUTH MAKSUTOV-CASSEGRAIN**

The compact but powerful SKYMAX-127 is ideal for the observation of Double-Stars, and the surface detail of the Moon and Bright Planets. Its high-resolution, long focal length optical system is multi-coated to maximise contrast and image sharpness. The supplied erect image diagonal provides an upright, fully corrected image allowing the telescope to be also used for terrestrial observing.

- Magnifications (with eyepieces supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied: 10mm & 25mm
- 6x30 Finderscope
- 90° Erect Image Diagonal 1.25"
- AZ5 Deluxe Alt-Azimuth Mount & Aluminium Tripod with Accessory Tray
- Mount Rotation Angle (Continuous): 360° (Azimuth), -50° to +90° (Altitude)
- Height Range of Tripod/Mount (excl. OTA): 86.5cm - 158.5cm
- Total Overall Weight: 8.6kg
- 55% more Light Gathering than 102mm

## STARQUEST™ EQUATORIAL SERIES

A lightweight, 'grab-and-go' range combining proven high quality Sky-Watcher telescope optics with a newly designed and well-engineered equatorial mount. The mount features a high quality clutch system, precision 122 gear tooth/360° gearing on both axes and excellent stability, with a maximum payload of 3kg. The equatorial mount, when polar aligned, allows you to easily track objects as they move across the night sky with its smoothly operated slow motion control cables. An optional motor drive (Prod. Code 20952) is available separately, for motorised tracking of the R.A. axis.

### STARQUEST-102R

#### 102mm (4") f/4.9 REFRACTOR

The STARQUEST-102R is a two-element, air-spaced achromatic refractor telescope package, and a well proven performer for 'Rich-Field' views of comets, Star Fields, Star Clusters, Nebulae, Bright Galaxies/Planets & the Moon. Supplied complete with Equatorial Mount and adjustable aluminium tripod.

- Magnifications (with eyepieces supplied): x20 & x50 • Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm • Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied: 10mm & 25mm • Red Dot Finder • 90° Star Diagonal 1.25"
- Multi-Coated Objective Lens • Equatorial Mount with Adjustable Aluminium Tripod & Accessory Tray
- Smooth Slow-Motion Cable Controls to both RA and DEC axes • Counterweight Bar with Counterweight
- 62.5% more Light Gathering than 80mm

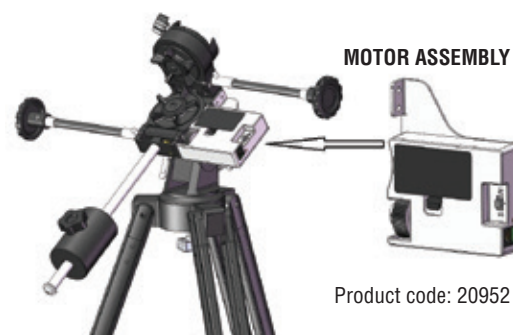


### STARQUEST-102MC

#### 102mm (4") f/12.7 MAKSUTOV-CASSEGRAIN

The compact but powerful STARQUEST-102MC telescope package is ideal for the observation of Double-Stars and the surface detail of the Moon and Bright Planets. Its high-resolution, long focal length optical system is multi-coated to maximise contrast and image sharpness. Supplied complete with Equatorial Mount and adjustable aluminium tripod.

- Magnifications (with eyepieces supplied): x52 & x130
- Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm
- Telescope Focal Length: 1300mm (f/12.74)
- Eyepieces Supplied: 10mm & 25mm
- Red Dot Finder
- 90° Star Diagonal 1.25"
- Equatorial Mount with Adjustable Aluminium Tripod and Accessory Tray
- Smooth Slow-Motion Cable Controls to both RA and DEC Axes
- Counterweight Bar with Counterweight
- 28% more Light Gathering than 90mm



#### R.A. MOTOR DRIVE FOR STARQUEST & AZ-EQ AVANT SERIES (Product code 20952)

Provides single-speed (1x Sidereal) tracking of the R.A. axis. Requires 2 x AA Batteries

### STARQUEST-130P

#### 130mm (5.1") f/5 PARABOLIC NEWTONIAN REFLECTOR

With an extremely useful 130mm of light gathering aperture and a superb parabolic primary mirror, the STARQUEST-130P telescope package is a highly capable all-rounder for the observation of the Moon, Bright Planets/Nebulae, Galaxies and Star Clusters. Supplied complete with Equatorial Mount and adjustable aluminium tripod.

- Magnifications (with eyepieces supplied): x26 & x65 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied: 10mm & 25mm • Red Dot Finder
- Equatorial Mount with Adjustable Aluminium Tripod and Accessory Tray
- Smooth Slow-Motion Control Cables to both RA and DEC Axes
- Counterweight Bar with Counterweight • 30% more Light Gathering than 114mm





## AZ-EQ AVANT™ ALT-AZIMUTH/EQUATORIAL SERIES

The well-engineered and easy to use AZ-EQ AVANT™ mounting provides excellent stability and precise control in either Alt-Azimuth or Equatorial configurations, via its smooth slow motion controls located on both axes. The slow motion control knobs can be conveniently positioned at either end of both the R.A. or DEC axis shafts. The AVANT™ mount features 122 Tooth Helical Worm Gear Transmission on both R.A. and DEC Axes. The R.A. Axis is continuously rotatable 360°. Packaged with proven high quality Sky-Watcher telescope optics.

An optional motor drive (Product Code 20952) is available separately, for motorised tracking of the R.A. axis. (See page 14)



AZ-EQ AVANT Mount Shown in Alt-Azimuth Mode



**SKYMAX-102 (AZ-EQ AVANT)**  
Product Code: 10269

## SKYMAX-102 (AZ-EQ AVANT)

### 102mm (4") f/12.7 ALT-AZIMUTH/EQUATORIAL MAKSTOV-CASSEGRAIN

The compact but powerful SKYMAX-102 is ideal for the observation of double-stars, and the surface detail of the Moon and Bright Planets. Its high-resolution, long focal length optical system is multi-coated to maximise contrast and image sharpness.

- Magnifications (with eyepieces supplied): x52 & x130
- Highest Practical Power (Potential): x204
- Diameter of Primary Mirror: 102mm
- Telescope Focal Length: 1300mm (f/12.74)
- Eyepieces Supplied: 10mm & 25mm
- Red Dot Finder • 90° Star Diagonal 1.25"
- AZ-EQ AVANT Dual-Mode Alt-Azimuth/Equatorial Mount
- Aluminium Tripod with 21cm Extension Tube & Accessory Tray
- 1/4-20 Screw Thread Connector on Mount Saddle
- Counterweight Bar with 1kg Counterweight
- Mount Payload Capacity: 3kg
- Height Range of Tripod/Mount (excl. OTA): 81cm - 156cm
- Total Overall Weight: 8.25kg
- 28% more Light Gathering than 90mm



**SKYHAWK-1145PS (AZ-EQ AVANT)**  
Product Code: 10268

## SKYHAWK-1145PS (AZ-EQ AVANT)

### 114mm (4.5") f/4.4 ALT-AZIMUTH/EQUATORIAL PARABOLIC NEWTONIAN REFLECTOR

With a useful 114mm of light gathering aperture and a superb parabolic primary mirror, the SKYHAWK-1145PS is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

- Magnifications (with eyepieces supplied): x20 & x50 • Highest Practical Power (Potential): x228
- Diameter of Primary Mirror: 114mm • Telescope Focal Length: 500mm (f/4.38)
- Eyepieces Supplied: 10mm & 25mm • Red Dot Finder • AZ-EQ AVANT Dual-Mode Alt-Azimuth/Equatorial Mount
- Aluminium Tripod with 21cm Extension Tube & Accessory Tray
- 1/4-20 Screw Thread Connector on Mount Saddle • Counterweight Bar with 1kg Counterweight
- Mount Payload Capacity: 3kg • Height Range of Tripod/Mount (excl. OTA): 81cm - 156cm
- Total Overall Weight: 7.8kg • 125% more Light Gathering than 76mm



**EXPLORER-130PS (AZ-EQ AVANT)**  
Product Code: 10267

## EXPLORER-130PS (AZ-EQ AVANT)

### 130mm (5.1") f/5 ALT-AZIMUTH/EQUATORIAL PARABOLIC NEWTONIAN REFLECTOR

With an extremely useful 130mm of light gathering aperture and a superb parabolic primary mirror, the EXPLORER-130PS is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters.

*Quick to assemble, easy to setup and provides great views straight out of the box.... The telescope's focal length of 650mm is a good compromise for observing a wide range of objects including both Solar System and deep-sky targets.... We really liked this scope and mount package.... The mount is very well thought out, light yet sturdy and the complete set-up is very appealing."*

**BBC SKY AT NIGHT MAGAZINE**

- Magnifications (with eyepieces supplied): x26 & x65 • Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied: 10mm & 25mm • Red Dot Finder • AZ-EQ AVANT Dual-Mode Alt-Azimuth/Equatorial Mount
- Aluminium Tripod with 21cm Extension Tube & Accessory Tray
- 1/4-20 Screw Thread Connector on Mount Saddle • Counterweight Bar with 2.35kg Counterweight
- Mount Payload Capacity: 3kg • Height Range of Tripod/Mount (excl. OTA): 81cm - 156cm
- Total Overall Weight: 9kg • 30% more Light Gathering than 114mm



## ASTROLUX 76mm (3") f/9.2 NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x28, x56, x70, x140 • Highest Practical Power (Potential): x152 • Diameter of Primary Mirror: 76mm • Telescope Focal Length: 700mm (f/9.2) • Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • 6x24 Finderscope • AZ1 Alt-Azimuth Mount • Aluminium Tripod with Accessory Tray

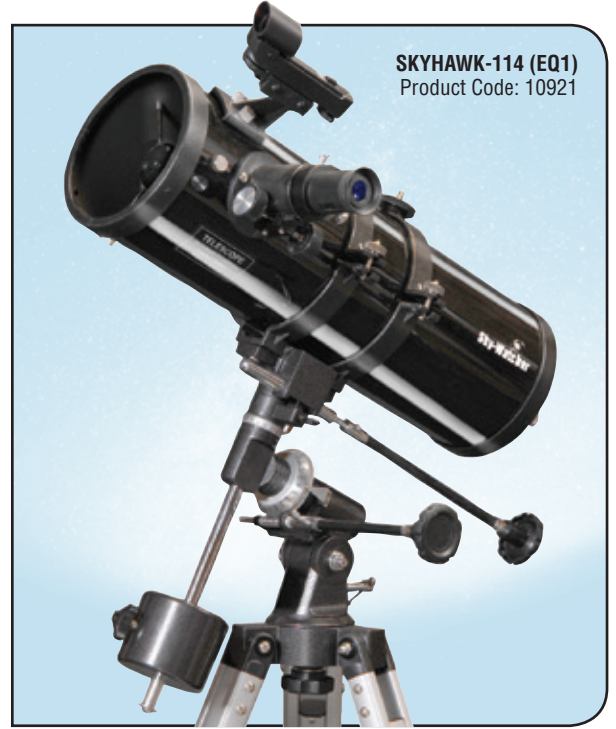


**ASTROLUX**  
Product Code:  
10708

## SKYHAWK-114 (EQ1)

### 114mm (4.5") f/8.7 CATADIOPTRIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x40, x80, x100, x200 • Highest Practical Power (Potential): x228 • Diameter of Primary Mirror: 114mm • Telescope Focal Length: 1000mm (f/8.77) • Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • Red Dot Finder • EQ1 Equatorial Mount • Aluminium Tripod with Accessory Tray • 125% more Light Gathering than 76mm



**SKYHAWK-114 (EQ1)**  
Product Code: 10921

## SKYHAWK-1145P (EQ1)

### 114mm (4.5") f/4.4 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x228 • Diameter of Primary Mirror: 114mm
- Telescope Focal Length: 500mm (f/4.4) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- Red Dot Finder • EQ1 Equatorial Mount • Aluminium Tripod with Accessory Tray
- 125% more Light Gathering than 76mm

### BEST BUDGET BUY

#### THE INDEPENDENT

#### SKYHAWK-1145PM (EQ1)

(The Ten Best Telescopes feature. Chosen by Robin Scagell, Vice President of The Society for Popular Astronomy)

*"The optics were so good... Captures star clusters and brighter nebulae beautifully... The planet (Saturn) was jaw-droppingly beautiful, with a host of fine detail visible... The review instrument certainly delivered in every important respect."*

BBC SKY AT NIGHT MAGAZINE

### NEED MORE MAGNIFICATION? – TRY A BARLOW LENS

A x2 Barlow lens is a very useful accessory. It effectively doubles the focal length, and hence magnifying power of the objective lens. Therefore, when used in conjunction with an eyepiece, it has the effect of increasing each standard eyepiece magnification by a factor of 2, giving twice the range of standard magnifications than available before.

(e.g. if your telescope offers magnifications of x20 and x50 without a Barlow lens, with a Barlow lens magnifications of x40 and x100 are also now possible). Using a Barlow lens to increase magnification also has other benefits: Improved eye relief and reduced spherical aberration in the eyepiece.

**a) x2 Economy 1.25" Barlow Lens (Product Code: 20475)**

**b) x2 Deluxe Achromatic 1.25" Barlow Lens (Product Code: 20364)**



**SKYHAWK-1145P (EQ1)**  
Product Code: 10709



## EXPLORER-130 (EQ2)

### 130mm (5.1") f/6.9 NEWTONIAN REFLECTOR

The award-winning Explorer-130 is a great choice for the serious beginner and also receives high marks from more seasoned astronomers. With an extremely useful 130mm of light gathering aperture, this telescope is a highly capable all-rounder for the observation of the Moon, Bright Planets, Nebulae, Galaxies and Star Clusters. Supplied with the EQ2 equatorial mount, which when polar aligned, will allow you to easily track objects as they move across the night sky via its slow motion control cables.

- Magnifications (with optics supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm • Telescope Focal Length: 900mm (f/6.92) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder • EQ2 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 30% more Light Gathering than 114mm



*"This telescope made observing the night sky enjoyable...great views coupled with ease of use."*  
**BBC SKY AT NIGHT MAGAZINE**



**EXPLORER-130 (EQ2)**  
 Product code: 10922

## EXPLORER-130M (EQ2)

### 130mm (5.1") f/6.9 MOTORISED NEWTONIAN REFLECTOR

Identical to the award-winning Explorer-130 above, but with the addition of an R.A. Motor Drive and Multi-Speed Handset

- Magnifications (with optics supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x260 • Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 900mm (f/6.92) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder • EQ2 Equatorial Mount
- R.A. Motor Drive (D.C.) with Multi-Speed Handset
- Aluminium Tripod with Accessory Tray • 30% more Light Gathering than 114mm



**EXPLORER-130M (EQ2)**  
 Product code: 10713



## EXPLORER-130P (EQ2)

### 130mm (5.1") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with eyepieces supplied): x26 & x65
- Highest Practical Power (Potential): x260
- Diameter of Primary Mirror: 130mm
- Telescope Focal Length: 650mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- Red Dot Finder • EQ2 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 30% more Light Gathering than 114mm

*"I was most impressed by the views revealed by the 'scope during tests... Despite a phase of nearly 96 percent, the waxing gibbous Moon revealed a seemingly inexhaustible amount of fine detail... Highly recommended!"*  
**ASTRONOMY NOW MAGAZINE**



**EXPLORER-130P (EQ2)**  
 Product Code: 10712

## SKY-WATCHER DELUXE MIRROR COATINGS

Most reflectors today usually have a thin coat of aluminium as the mirror surface and then an overcoat of silicon monoxide or silicon dioxide to protect it. Silicon dioxide produces a much more durable coat than silicon monoxide but requires specialised equipment to apply it and is therefore more expensive. Protection is needed, because in most reflectors, the mirror is open to the elements and deterioration of the reflective layer reduces the resolution of the telescope. ALL Sky-Watcher reflectors are Multi-Coated with Silicon Dioxide as standard for Optimum Durability and Long Term Performance.

## EXPLORER BLACK DIAMOND PARABOLIC REFLECTORS

"All Sky-Watcher's Explorer f/4, f/5 and f/8 BLACK DIAMOND Newtonians feature precision parabolic mirrors that provide excellent all-round performance on the night sky. The crisp, high-resolution views and faithful colour rendering delivered by compact tube assemblies, well matched to their mounts, means that both planetary and deep-sky observers will relish them." **ADE ASHFORD, WWW.SCOPETEST.COM**

### EXPLORER-150P (EQ3-2)

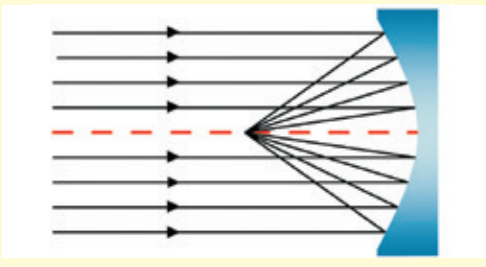
Product Code:  
10912/20448



"Good for advanced observing"....  
"Saturn was a stunning sight"  
**BBC SKY AT NIGHT MAGAZINE**

### PARABOLIC PRIMARY MIRRORS

Sky-Watcher EXPLORER-P Newtonian Reflectors all feature High Quality Parabolic Primary Mirrors to eliminate spherical aberrations. The mirrors are 'parabolised' to bring all the light rays to the same focal point to produce sharp, contrasty images, which are full of detail.



### EXPLORER-150P (EQ3-2)

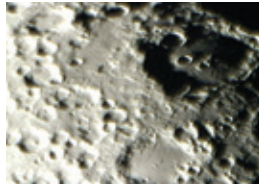
#### 150mm (6") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x30, x60, x75, x150 • Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 750mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor) • Parabolic Primary Mirror • Built-in Polar Alignment Scope Holder
- 0.5mm Ultra-Thin Secondary Mirror Supports • 6x30 Finderscope • Direct SLR Camera Connection
- EQ3-2 Deluxe Equatorial Mount • Aluminium Tripod with Accessory Tray • 33% more Light Gathering than 130mm

### EXPLORER-150P (OTA)

#### 150mm (6") f/5 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 6x30 Finderscope, x2 Barlow lens, Tube Rings and Dovetail Mounting Bar. **Product Code: 10912**



**MOON TAKEN THROUGH EXPLORER-150P IMAGE COURTESY OF IAN PETERS, ENGLAND**

### EXPLORER-150P (EQ3 PRO)

#### 150mm (6") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x30, x60, x75, x150
- Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 6x30 Finderscope
- Direct SLR Camera Connection
- EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod
- 42,900+ Object SynScan Computer Database
- Built-in Dual-Axis Stepper Motors
- Built-in Polar Alignment Scope
- 33% more Light Gathering than 130mm



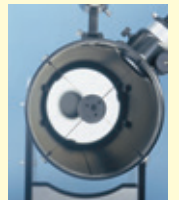
### EXPLORER-150P (EQ3 PRO)

Product Code:  
10912/20230



### ADVANCED FEATURES

All Sky-Watcher EXPLORER-P Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.



### EXPLORER-150PL (EQ3-2)

Product Code:  
10949/20448



"Verdict: a reborn classic that I can't recommend highly enough for the price..."

**ADE ASHFORD, WWW.SCOPETEST.COM**

### EXPLORER-150PL (EQ3-2)

#### 150mm (6") f/8 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x48, x96, x120, x240
- Highest Practical Power (Potential): x300
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 1200mm (f/8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- 0.5mm Ultra-Thin Secondary Mirror Supports
- Parabolic Primary Mirror
- 6x30 Finderscope
- Direct SLR Camera Connection
- EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 33% more Light Gathering than 130mm

### EXPLORER-150PL (OTA)

#### 150mm (6") f/8 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 6x30 Finderscope, x2 Barlow lens, Tube Rings and Dovetail Mounting Bar.

**Product Code: 10949**



# NEWTONIAN REFLECTORS

## EXPLORER-200P (OTA)

### 200mm (8") f/5 PARABOLIC NEWTONIAN REFLECTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 9x50 Finderscope, x2 Deluxe Barlow lens, Tube Rings and Dovetail Mounting Bar.

PRODUCT CODE: 10923



## EXPLORER-200P (EQ5)

### 200mm (8") f/5 PARABOLIC NEWTONIAN REFLECTOR

- Magnifications (with optics supplied): x40, x80, x100, x200
- Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm
- Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with Camera Adaptor)
- Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection
- EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 77% more Light Gathering than 150mm

### EXPLORER-200P (EQ5)

Product Code: 10923/20464



### EXPLORER-200P (EQ5 PRO)

Product Code: 10923/20981



JUPITER TAKEN THROUGH EXPLORER-200P. IMAGE COURTESY OF BILL DRAPER, ENGLAND

*"The Explorer-200P passed all our tests with flying colours and was a delight to use both optically and mechanically... The overall stability of the system impressed us... The mount was the most stable in the test with no flexing at all... The quality of its views just pushed it ahead of the Europa, giving us a very enjoyable look at all of our test objects."*

BBC SKY AT NIGHT MAGAZINE

## EXPLORER-200P (EQ5 PRO)

### 200mm (8") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x40, x80, x100, x200 • Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm • Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection • EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod • Built-in Polar Alignment Scope • 77% more Light Gathering than 150mm

## EXPLORER-200P (HEQ5 PRO)

### 200mm (8") f/5 PARABOLIC GO-TO NEWTONIAN REFLECTOR

- Magnification (with optics supplied): x40, x80, x100, x200
- Highest Practical Power (Potential): x400
- Diameter of Primary Mirror: 200mm
- Telescope Focal Length: 1000mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Dual-Fit 1.25"/2" Focuser
- Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope
- Direct SLR Camera Connection
- HEQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan Computer Database
- Built-in Polar Alignment Scope
- 77% more Light Gathering than 150mm



DUMBELL NEBULA TAKEN THROUGH EXPLORER-200P. IMAGE COURTESY OF BILL DRAPER, ENGLAND



### EXPLORER-200P (HEQ5 PRO)

Product Code: 10923/20886

## EXPLORER-PDS SERIES PARABOLIC DUAL-SPEED IMAGING NEWTONIANS

The new Sky-Watcher EXPLORER-PDS Advanced range of Parabolic Newtonian Reflectors incorporate the same superb mirror-sets\* as the Explorer-P Black Diamond Series, but with two significant advantages. A Dual-Speed 10:1 ratio focuser is now included for excellent focusing precision. Also the tube length has been slightly shortened to optimise their performance for prime-focus photography. Even better performance for astro-photography and visual use can be achieved when used in combination with Sky-Watcher's Newtonian coma corrector (Product Code: 20233)



\*Note: the Explorer-200PDS has a larger 58mm secondary mirror, for enhanced field illumination, compared to the Explorer-200P which has a 52mm secondary.

### EXPLORER-130PDS OTA

#### 130mm (5.1") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x23 • Highest Practical Power (Potential) x260 • 6x30 Finderscope
- Diameter of Primary Mirror 130mm • Telescope Focal Length 650mm (f/5) • Eyepiece Supplied 28mm (2"/50.8mm)
- Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • Complete with tube rings and dovetail bar
- 30% more Light-Gathering than 114mm



**EXPLORER-130PDS OTA**  
Product Code: 10219



**EXPLORER-130PDS (EQ3 PRO)**  
Product Code: 10219/20230



### EXPLORER-130PDS (EQ3 PRO)

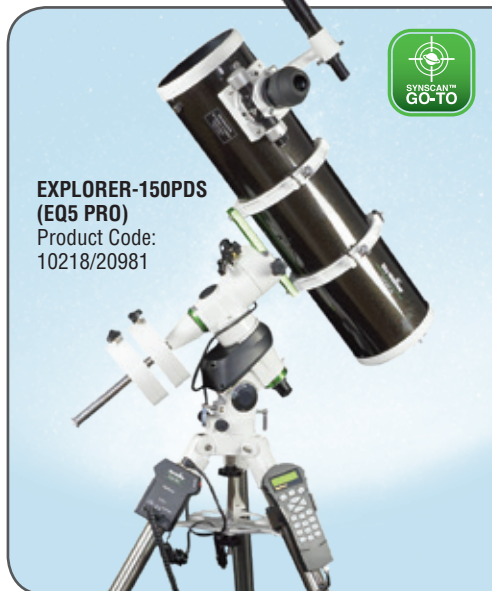
#### 130mm (5.1") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x23 • Highest Practical Power (Potential) x260
- Diameter of Primary Mirror 130mm • Telescope Focal Length 650mm (f/5)
- Eyepiece Supplied 28mm (2"/50.8mm) • 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod • 42,900+ Object SynScan™ Computer Database • Built-in Polar Alignment Scope • 30% more Light-Gathering than 114mm

### EXPLORER-150PDS (EQ3 PRO)

#### 150mm (6") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x27
- Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm
- Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 28mm (2"/50.8mm)
- 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ3 PRO Go-To Equatorial Mount with Aluminium Tripod
- 42,900+ Object SynScan™ Computer Database
- Built-in Polar Alignment Scope
- 33% more Light-Gathering than 130mm



**EXPLORER-150PDS (EQ5 PRO)**  
Product Code: 10218/20981



### EXPLORER-150PDS (EQ5 PRO)

#### 150mm (6") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x27
- Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm
- Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 28mm (2"/50.8mm)
- 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan™ Computer Database
- Built-in Polar Alignment Scope
- 33% more Light-Gathering than 130mm



**EXPLORER-150PDS (EQ3 PRO)**  
Product Code: 10218/20230



**EXPLORER-150PDS OTA**  
Product Code: 10218

### EXPLORER-150PDS OTA

#### 150mm (6") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x27 • Highest Practical Power (Potential) x300
- Diameter of Primary Mirror 150mm • Telescope Focal Length 750mm (f/5)
- Eyepiece Supplied 28mm (2"/50.8mm) • 6x30 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 33% more Light-Gathering than 130mm



## EXPLORER-200PDS OTA

### 200mm (8") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope
- Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • 77% more Light-Gathering than 150mm



**EXPLORER-200PDS (EQ5)**  
Product Code: 10220/20464

**EXPLORER-200PDS OTA**  
Product Code: 10220



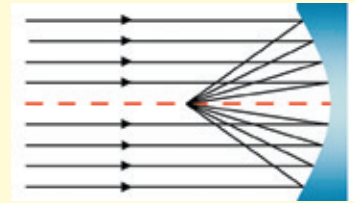
## EXPLORER-200PDS (EQ5)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36
- Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm
- Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm)
- 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ5 Equatorial Mount with 1.75" Stainless Steel Tripod
- 77% more Light-Gathering than 150mm

### PARABOLIC PRIMARY MIRRORS

All Sky-Watcher EXPLORER-PDS Newtonian Reflectors feature High Quality Parabolic Primary Mirrors to eliminate spherical aberrations. The mirrors are 'parabolised' to bring all the light rays to the same focal point to produce sharp, contrasty images, which are full of detail.



## EXPLORER-200PDS (EQ5 PRO)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

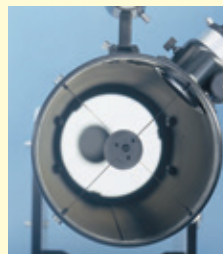
- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5) • Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror • 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • EQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod
- 42,900+ Object SynScan™ Computer Database • Built-in Polar Alignment Scope • 77% more Light-Gathering than 150mm



**EXPLORER-200PDS (HEQ5 PRO)**  
Product Code: 10220/20886

### ADVANCED FEATURES

Sky-Watcher EXPLORER-PDS Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.



**EXPLORER-200PDS (EQ5 PRO)**  
Product Code: 10220/20981

## EXPLORER-200PDS (HEQ5 PRO)

### 200mm (8") f/5 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x36 • Highest Practical Power (Potential) x400
- Diameter of Primary Mirror 200mm • Telescope Focal Length 1000mm (f/5)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- HEQ5 PRO Go-To Equatorial Mount with 1.75" Stainless Steel Tripod • Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 77% more Light-Gathering than 150mm

## EXPLORER-250PDS OTA

### 254mm (10") f/4.7 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x43 • Highest Practical Power (Potential) x508
- Diameter of Primary Mirror 254mm • Telescope Focal Length 1200mm (f/4.7)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 56% more Light-Gathering than 200mm



EXPLORER-250PDS OTA Product Code: 10221

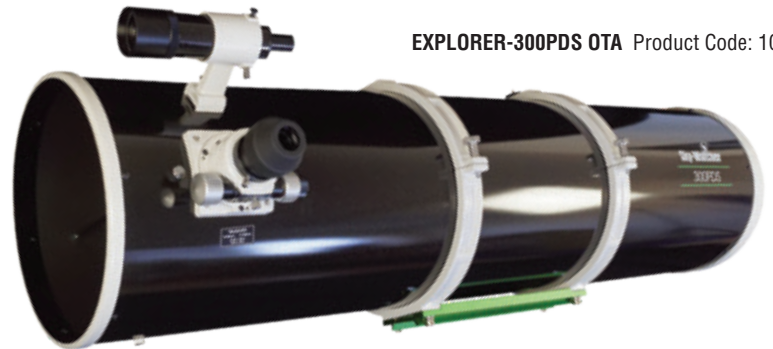
EXPLORER-250PDS  
(EQ6-R PRO)  
Product Code:  
10221/20855



## EXPLORER-250PDS (EQ6-R PRO)

### 254mm (10") f/4.7 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x43 • Highest Practical Power (Potential) x508
- Diameter of Primary Mirror 254mm • Telescope Focal Length 1200mm (f/4.7)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ6-R PRO Go-To Equatorial Mount with 2" Stainless Steel Tripod • Built-in Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 56% more Light-Gathering than 200mm



EXPLORER-300PDS OTA Product Code: 10222

## EXPLORER-300PDS OTA

### 305mm (12") f/4.9 PARABOLIC DUAL-SPEED IMAGING NEWTONIAN

- Magnification (with eyepiece supplied) x53.5 • Highest Practical Power (Potential) x610
- Diameter of Primary Mirror 305mm • Telescope Focal Length 1500mm (f/4.9)
- Eyepiece Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- 44% more Light-Gathering than 250mm

## EXPLORER-300PDS (EQ6-R PRO)

### 305mm (12") f/4.9 PARABOLIC DUAL-SPEED GO-TO IMAGING NEWTONIAN

- Magnifications (with eyepieces supplied) x53.5 • Highest Practical Power (Potential) x610
- Diameter of Primary Mirror 305mm • Telescope Focal Length 1500mm (f/4.9)
- Eyepieces Supplied 28mm LET (2"/50.8mm) • 9x50 Finderscope • Parabolic Primary Mirror
- 2" (50.8mm) Dual-Speed 10:1 Crayford Focuser • 0.5mm Ultra-Thin Secondary Mirror Supports
- EQ6-R PRO Go-To Equatorial Mount with 2" Stainless Steel Tripod • Built-in Polar Alignment Scope
- 42,900+ Object SynScan™ Computer Database • 44% more Light-Gathering than 250mm



EXPLORER-300PDS  
(EQ6-R PRO)  
Product Code:  
10222/20855

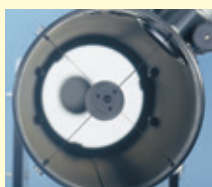


## COMA CORRECTOR (2") FOR NEWTONIAN REFLECTORS

Optimised for all Sky-Watcher fast-ratio f/4 & f/5 Newtonian Reflectors/Dobsonians, with 2" focuser. Delivers stunning wide-field views with pinpoint stars to the edge of the field. Magnification remains unaltered. Supplied complete with necessary adaptors for visual use. For imaging use with a DSLR camera, a suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available, Product Codes 20237 & 20238.



COMA CORRECTOR (2")  
Product Code: 20233



## ADVANCED FEATURES

All Sky-Watcher EXPLORER-PDS & QUATTRO Newtonian Reflectors feature 0.5mm Ultra-Thin Secondary Mirror Supports to reduce diffraction spikes & light loss, and high quality Paraboloidal primary mirrors to eliminate spherical aberration.



## QUATTRO f/4 DUAL-SPEED PARABOLIC IMAGING NEWTONIANS

The QUATTRO series with their fast f/4 focal ratios, have been specially designed for high quality astrophotography with short exposure times. They are of course also fine telescopes for visual observations. Tube interiors incorporate knife-edge ray traced baffles for superior contrast.

All QUATTRO models feature paraboloidal primary mirrors made of **Low Thermal Expansion Glass** resulting in substantially shorter cooling-down times.

### QUATTRO-200P OTA

Product code: 10238

D=200mm F=800mm



### QUATTRO-250P OTA

Product Code: 10239

D=250mm F=1000mm

### QUATTRO-300P OTA

Product Code: 10237

D=300mm F=1200mm

All OTA's supplied with 9x50 Finderscope, Tube Rings, Dovetail Bar & 0.5mm Ultra-Thin Secondary Mirror Supports (Eyepieces not supplied)

## SKY-WATCHER f/4 APLANATIC SUPER COMA CORRECTOR

Product Code 20231

Optimised for Sky-Watcher superfast f/4 Quattro imaging Newtonians, delivering stunning wide-field views with pinpoint stars to the edge of the flat field. Magnification remains unaltered. Features a four-element design with one element made from FPL-51 ED glass. Requires 55mm back focus. Image height 28mm. Outside diameter 50.8mm. A suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available, Product Codes 20237 & 20238.



## 2" DUAL-SPEED LINEAR POWER FOCUSER

(all models): The linear power focuser utilises 4 precision ball bearings to support the drawtube and provide great stability and zero image shift while supporting a heavy eyepiece or camera. Moving the drawtube by the roller rather than a rack and pinion ensures exceptionally smooth operation, great feel and precise adjustability. The dual-speed feature has a second focus knob that has a 10:1 speed reduction to provide the super-fine adjustments even the most demanding users can appreciate.



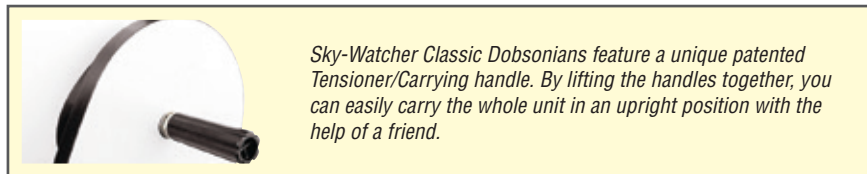
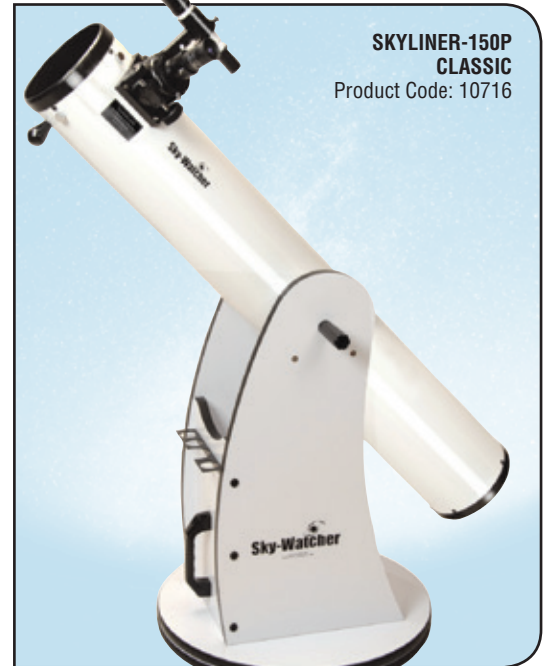
## SKYLINER CLASSIC PARABOLIC DOBSONIANS

These instruments offer an incredible aperture-to-price ratio. The Dobsonian mount, popularised by John Dobson in the late 1970's, is a very simple but effective method of mounting a Newtonian Reflector, based on the alt-azimuth principle. Fast and easy to set up, the Dobsonian mount consists of a box-type mounting which allows the telescope to pivot in altitude, while the box itself is rotated on a base in azimuth. The secret of the design is to correctly balance the optical tube and to use frictional materials, which allow it to move easily when nudged but to stay in position when not. The mount is designed to be driven by hand as opposed to slow motion controls.

### SKYLINER-150P CLASSIC 153mm (6") f/7.8 PARABOLIC DOBSONIAN

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x306
- Diameter of Primary Mirror: 153mm • Telescope Focal Length: 1200mm (f/7.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • 0.5mm Ultra-Thin Secondary Mirror Supports
- Parabolic Primary Mirror • 6x30 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 73% more Light Gathering than 114mm

*"For the largest aperture telescope and light-gathering capability for your money, look no further than a Sky-Watcher Classic Dobsonian. The Skyliner range features similar high-precision Newtonian optical tube assemblies found in the Explorer-P Series, coupled to a stable, non-motorised mount that's intuitive to use. A rugged, no-nonsense design for the practical observer that delivers all-round performance on the Moon, planets and dazzling deep-sky performance, especially in the larger apertures."* ADE ASHFORD, WWW.SCOPETEST.COM



### SKYLINER-200P CLASSIC 203mm (8") f/5.9 PARABOLIC DOBSONIAN

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x406
- Diameter of Primary Mirror: 203mm • Telescope Focal Length: 1200mm (f/5.91)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Dual-Fit 1.25"/2" Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 77% more Light Gathering than 150mm

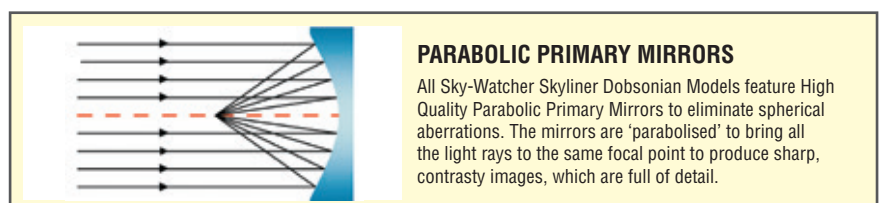
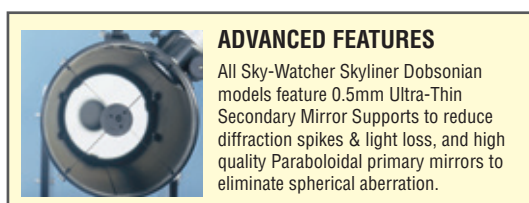
*"We were very pleased with the appearance of all the test objects.... Turning to Saturn, the view really took our breath away....with this scope planetary detail is certainly not compromised.... Fans of deep-sky observing would certainly find the Skyliner satisfying.... The Skyliner was a joy to use."*

BBC SKY AT NIGHT MAGAZINE (SKYLINER-200P)



### SKYLINER-250P CLASSIC 254mm (10") f/4.7 PARABOLIC DOBSONIAN

- Magnification (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x508
- Diameter of Primary Mirror: 254mm • Telescope Focal Length: 1200mm (f/4.7)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Dual-Fit 1.25"/2" Focuser
- Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Wooden Alt-Azimuth Mount with Accessory Tray
- 56% more Light Gathering than 200mm





## SKYLINER FLEXTUBE™ PARABOLIC DOBSONIANS

Sky-Watcher's patented FlexTube™ range of truss-tube Dobsonian models all feature collapsible OTA's, making them incredibly easy to transport and store, offering the ultimate flexibility for owning an otherwise large telescope. They all feature 2-part telescope tubes attached with 3-arm supports. When in use the tube is fully extended and each arm's axis is clamped to ensure a rigid, high-performance optical system. After use, the clamps can be loosened and the tube retracted into a convenient compact size. Owning a large telescope has never been so easy!!



**SKYLINER-250P  
FLEXTUBE™**  
Product Code:  
10157

### SKYLINER-250P FLEXTUBE™ 254mm (10") f/4.7 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120 • Highest Practical Power (Potential): x508
- Diameter of Primary Mirror: 254mm • Telescope Focal Length: 1200mm (f/4.7)
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Wooden Alt-Azimuth Mount with Accessory Tray • 56% more Light Gathering than 200mm

#### SKYLINER FLEXTUBE™ PARABOLIC DOBSONIANS

*"Despite their great performance to cost ratio, Dobsonians can be rather bulky in larger apertures, but Sky-Watcher have addressed this with their innovative and aesthetically-pleasing Flextube™ range. With their collapsible tube design, these versatile instruments are easy to store and can be readied for observation at a moments notice. Ideal for deep-sky viewing, these scopes will also deliver stunning planetary images"* ADE ASHFORD,  
[WWW.SCOPETEST.COM](http://WWW.SCOPETEST.COM)



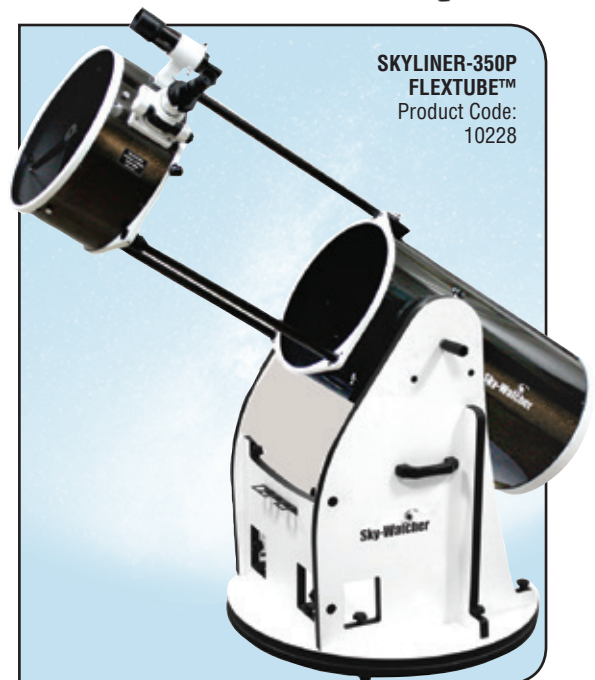
**SKYLINER-300P  
FLEXTUBE™**  
Product Code:  
10158

### SKYLINER-300P FLEXTUBE™ 305mm (12") f/4.9 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x58 & x150 • Diameter of Primary Mirror: 305mm
- Telescope Focal Length: 1500mm (f/4.9) • Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection • Telescope Tube Length 144cm (Extended), 92.5cm (Retracted)
- Wooden Alt-Azimuth Mount with Accessory Tray • 44% more Light Gathering than 250mm

### SKYLINER-350P FLEXTUBE™ 355mm (14") f/4.5 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x62 & x160 • Diameter of Primary Mirror: 355mm
- Telescope Focal Length: 1600mm (f/4.5) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Dual-Speed Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Telescope Tube Length 151cm (extended), 97cm (retracted) • Base Diameter 79cm
- Wooden Alt-Azimuth Mount with Accessory Tray • 40% more Light Gathering than 300mm



**SKYLINER-350P  
FLEXTUBE™**  
Product Code:  
10228



**SKYLINER-400P  
FLEXTUBE™**  
Product Code:  
10230

*"Delivers stunning planetary and deep-sky performance in a compact, readily transportable package."*

*"Extends with effortless precision on three rods that are easily locked into position at their greatest extent. Despite repeatedly collapsing and extending the instrument in the course of an prolonged observing session, the FlexTube's optics remained in perfect alignment."*

*"Saturn is often described as the jewel of the Solar System, but to see it in all its 24-carat splendour you need a 12-inch FlexTube. In recent memory I haven't seen such a sharp and richly rendered image of the ringed planet"* ADE ASHFORD,  
[WWW.SCOPETEST.COM](http://WWW.SCOPETEST.COM)  
(SKYLINER-300P)

### SKYLINER-400P FLEXTUBE™ 406mm (16") f/4.4 PARABOLIC DOBSONIAN

- Magnifications (with Eyepieces supplied): x69 & x180 • Diameter of Primary Mirror: 406mm
- Telescope Focal Length: 1800mm (f/4.4) • Parabolic Primary Mirror
- Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-fit 1.25"/2" Dual-Speed Crayford Focuser
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope • Direct SLR Camera Connection
- Telescope Tube Length 168cm (extended), 107cm (retracted) • Base Diameter 86cm
- Wooden Alt-Azimuth mount with accessory tray • 34.5% more Light Gathering than 350mm

## SKYLINER FLEXTUBE SYNSCAN™ COMPUTERISED PARABOLIC GO-TO DOBSONIANS

Combining the power of a large optical tube, the extreme portability of the patented collapsible FlexTube™ design and SynScan™ computerised Go-To technology, they bring over 42,900 celestial objects right in front of your eyes, and automatically track them as they move across the night sky. Features patented Freedom-Find™ dual-encoder technology which also allows the telescope to be moved manually in either axis, without losing its alignment or positional information, giving the user enormous convenience and flexibility during observing sessions. Simply push the tube close to the object and let the computer do the rest of the work!



### SKYLINER-200P FLEXTUBE SYNSCAN™ 200mm (8") f/6 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120 • Highest Practical Power (Potential): x400 • Diameter of Primary Mirror: 200mm • Telescope Focal Length: 1200mm (f/6) • Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection • Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors • SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 77% more Light Gathering than 150mm



### SKYLINER-250P FLEXTUBE SYNSCAN™ 254mm (10") f/4.7 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x46 & x120 • Highest Practical Power (Potential): x508 • Diameter of Primary Mirror: 254mm • Telescope Focal Length: 1200mm (f/4.7) • Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection • Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors • SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 56% more Light Gathering than 200mm

### SKYLINER-300P FLEXTUBE SYNSCAN™ 305mm (12") f/4.9 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x58 & x150 • Diameter of Primary Mirror: 305mm
- Telescope Focal Length: 1500mm (f/4.9) • Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Fit 1.25"/2" Crayford Focuser • Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports
- 9x50 Finderscope • Direct SLR Camera Connection • Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors • SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended
- 44% more Light Gathering than 250mm



### SKYLINER-350P FLEXTUBE SYNSCAN™ 355mm (14") f/4.5 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x62 & x160 • Diameter of Primary Mirror: 355mm • Telescope Focal Length: 1600mm (f/4.5) • Eyepieces Supplied (1.25"): SP10mm & 26mm • Dual-Speed 2" Crayford Focuser
- Parabolic Primary Mirror • 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Base Diameter 79cm • Tube dimensions: 500mm (diameter), 970mm-1510mm (length) • Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database • Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended • 40% more Light Gathering than 300mm



## STARGATE SYNSCAN™ COMPUTERISED GO-TO DOBSONIANS

These telescopes with their huge light gathering capabilities provide the ultimate WOW factor experience for aficionados of visual astronomy, delivering outstanding performance on both Planetary and Deep-Sky objects. The telescope can be slewed automatically to 42,900+ objects in the Synscan™ handset's computerised database. The elegant and rigid all metal truss tube design is easily transportable when unassembled, and can be assembled and ready for use in about 20 minutes. Features Freedom-Find™ Dual-Encoder technology, which also allows the telescope to be moved manually in either axis without losing its alignment or positional information, giving the user enormous convenience and flexibility during observing sessions.



**SKYLINER-400P  
FLEXTUBE SYNSCAN™**  
Product Code:  
10231



### SKYLINER-400P FLEXTUBE SYNSCAN™ 406mm (16") f/4.4 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x69 & x180 • Diameter of Primary Mirror: 406mm
- Telescope Focal Length: 1800mm (f/4.4) • Eyepieces Supplied (1.25"): SP10mm & 26mm
- Dual-Speed 2" Crayford Focuser • Parabolic Primary Mirror
- 0.5mm Ultra-Thin Secondary Mirror Supports • 9x50 Finderscope
- Direct SLR Camera Connection • Base Diameter 86cm
- Tube dimensions: 540mm (diameter), 1071mm-1685mm (length)
- Alt-Azimuth Mount with Accessory Tray and Built-in Heavy-Duty Servo Motors
- SynScan AZ Computerised Handset with 42,900+ Object Database
- Power Requirement: 12v DC Power Supply (Tip Positive). Sky-Watcher 17Ah Power Tank Recommended • 34.5% more Light Gathering than 350mm

### STARGATE-450P SYNSCAN™

#### 458mm (18") f/4.1 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x68 & x190 • Diameter of Primary Mirror: 458mm
- Telescope Focal Length: 1900mm (f/4.1) • Eyepieces Supplied: 10mm (1.25") & 28mm (2")
- Collimating Eyepiece (1.25") • Dual-Speed 2" Crayford Focuser with 1.25" adaptor
- Parabolic Primary Mirror (Patented weight saving design) • 120mm Secondary Mirror
- 9x50 Finderscope • Direct SLR Camera Connection
- Fabric Light Shroud • Transmission: Worm + Timing Belt + 64 Micro-step/0.9° Stepper Motor Drive
- Pointing Accuracy: Up to 5 arc-minutes (RMS)
- Synscan Computerised Handset with 42,900+ Object Database • Power requirement: DC11V/5A ~ 15V/3A • 31% more Light Gathering than 400mm • Overall Weight 80kg



**STARGATE-500P SYNSCAN™**  
Product Code: 10256



**STARGATE-450P SYNSCAN™**  
Product Code: 10255

**STARGATE-450P  
(MANUAL VERSION) ALSO AVAILABLE**  
Product Code: 10242

### STARGATE-500P SYNSCAN™

#### 508mm (20") f/4 COMPUTERISED PARABOLIC GO-TO DOBSONIAN

- Magnifications (with Eyepieces supplied): x71 & x200 • Diameter of Primary Mirror: 508mm
- Telescope Focal Length: 2000mm (f/4)
- Eyepieces Supplied: 10mm (1.25") & 28mm (2") • Collimating Eyepiece (1.25")
- Dual-Speed 2" Crayford Focuser with 1.25" adaptor • Parabolic Primary Mirror (Patented weight saving design) • 136mm Secondary Mirror • 9x50 Finderscope
- Direct SLR Camera Connection • Fabric Light Shroud
- Transmission: Worm + Timing Belt + 64 Micro-step/0.9° Stepper Motor Drive
- Pointing Accuracy: Up to 5 arc-minutes (RMS) • Synscan Computerised Handset with 42,900+ Object Database
- Power requirement: DC11V/5A ~ 15V/3A
- 61% more Light Gathering than 400mm • Overall Weight 90kg

*"We took a tour of some of the best deep-sky targets the sky has to offer and were wowed by the views. In twilight, the double star Albireo was stunning in both eyepieces.... Objects that appeared as a smudge of light in smaller instruments took on new life with the 500P.... Turning to galaxies, we couldn't help but gasp when we homed in on the Cigar Galaxy, M82, with the 10mm eyepiece and it displayed lots of the dust features we normally associate with photographs.... Overall, the Stargate-500P is an impressive system."*

BBC SKY AT NIGHT MAGAZINE



## SKYMAX MAKSUTOV-CASSEGRAINS

The ultimate 'take-anywhere' telescopes, ideal for observing Double Stars, and the surface detail of the Moon and Planets. Despite their small dimensions they pack a powerful punch. Their High-Resolution, long focal length optical systems are multi-coated to maximise contrast and image sharpness. The regular Skymax Maksutovs come in apertures of 90mm & 102mm and are available either complete with equatorial mounts and tripods, or as tube assemblies. All these optical tube assemblies can be mounted onto a standard photographic tripod. Whether your requirement is for terrestrial or astronomical use, these compact scopes are the perfect companion.



**SKYMAX-90 (EQ1)**  
Product Code: 10673

### SKYMAX-90 (EQ1)

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x50 & x125
- Highest Practical Power (Potential): x180 • Diameter of Primary Mirror: 90mm
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • EQ1 Equatorial Mount
- Tripod Bush for Photo-Tripod Mounting • Aluminium Tripod with Accessory Tray

#### REVIEW OF SKYMAX-90 (EQ1)

*"The optics of the review instrument were staggeringly good, giving superb views of the Moon"... "Also excels for double-star observations"*  
BBC SKY AT NIGHT MAGAZINE

### SKYMAX-90 TABLETOP

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x50, x100, x125, x250
- Diameter of Primary Mirror: 90mm
- 1.25"/31.7mm Star Diagonal
- Telescope Focal Length: 1250mm (f/13.88)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- Red Dot Finderscope
- Tripod Bush for Photo-Tripod Mounting
- Tabletop EQ1 Mount
- Soft Carrying Bag



**SKYMAX-90 TABLETOP**  
Product Code: 10669



**SKYMAX-102 (EQ2)**  
Product Code: 10674

#### SKYMAX MAKSUTOV-CASSEGRAINS

*"Since its conception in the 1940s, the name Maksutov has become synonymous with compact, high-precision optical instruments. Sky-Watcher's range of SKYMAX Maksutov-Cassegrain telescopes remain true to this hallowed tradition. Available in a range of apertures and focal lengths to suit just about any land or sky-based observation where contrast and clarity of image are paramount. Capable of high-power viewing, their lunar and planetary performance is extremely good."*  
ADE ASHFORD, WWW.SCOPETEST.COM

### SKYMAX-102 (EQ2)

#### 102mm (4") f/12.7 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x52 & x130
- Highest Practical Power (Potential): x204 • Diameter of Primary Mirror: 102mm
- Telescope Focal Length: 1300mm (f/12.74)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • EQ2 Equatorial Mount
- Tripod Bush for Photo-Tripod Mounting • Aluminium Tripod with Accessory Tray
- 28% more Light Gathering than 90mm



### SKYMAX-90T (OTA)

#### 90mm (3.5") f/13.8 MAKSUTOV-CASSEGRAIN

Specification and optics same as Skymax-90 (EQ1) but supplied without Equatorial Mount and Tripod.

Product Code: 10670



### SKYMAX-102T (OTA)

#### 102mm (4") f/12.7 MAKSUTOV-CASSEGRAIN

Specification and optics same as Skymax-102 (EQ2) but supplied without Equatorial Mount and Tripod.

Product Code: 10671



## SKYMAX 127mm, 150mm & 180mm MAKSUTOV-CASSEGRAINS

These instruments excel for high-power, high-resolution Lunar and Planetary applications. They both employ super-high contrast optical systems, utilising high-transmission multi-coatings on all optical surfaces, for optimum optical performance. The quality of each telescope is monitored by means of a Ronchi test and an artificial star test (See foot of page 30 for details). No effort is spared to reach optimal optical quality.



**SKYMAX-127 (EQ3-2)**  
Product Code: 10675

### SKYMAX-127 (OTA) 127mm (5") f/11.8 MAKSUTOV-CASSEGRAIN

- Magnifications with Eyepieces Supplied: x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm
- Telescope Focal Length: 1500mm (f/11.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 1.25"/31.7mm Star Diagonal
- Focusing by Moving Primary Mirror • Dovetail Mounting Bar



**SKYMAX-127 (OTA)** Product Code: 10672

### SKYMAX-127 (EQ3-2) 127mm (5") f/11.8 MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm • Telescope Focal Length: 1500mm (f/11.81)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder
- 1.25"/31.7mm Star Diagonal
- EQ3-2 Deluxe Equatorial Mount
- Focusing by Moving Primary Mirror
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 55% more Light gathering than 102mm

#### REVIEW OF SKYMAX-127 OTA

*"The rings of Saturn appeared sharply defined... Turning to the Moon, it was a revelation through the Skymax... This telescope certainly does a good job on the more detailed Solar System objects... In the deep sky, the Skymax performed well on everything to galaxies to nebulae"*

**BBC SKY AT NIGHT MAGAZINE**

### SKYMAX-127 (EQ3 PRO) 127mm (5") f/11.8 GO-TO MAKSUTOV-CASSEGRAIN

- Magnifications (with eyepieces supplied): x60 & x150
- Highest Practical Power (Potential): x254
- Diameter of Primary Mirror: 127mm • Telescope Focal Length: 1500mm (f/11.81)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Red Dot Finder • 1.25"/31.7mm Star Diagonal
- EQ3 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Focusing by Moving Primary Mirror • Built-in Polar Alignment Scope
- Aluminium Tripod with Accessory Tray • 55% more Light gathering than 102mm

**SKYMAX-127 (EQ3 PRO)**  
Product Code: 10672/20230

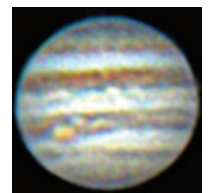
### SKYMAX-150 (OTA) 150mm (6") f/12 MAKSUTOV-CASSEGRAIN

- Magnifications with Eyepieces Supplied: x64
- Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm
- Telescope Focal Length: 1800mm (f/12)
- Eyepieces Supplied (2"): 28mm LET
- 9x50 Finderscope & Bracket
- 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- Dovetail Mounting Bar
- 39.5% more Light gathering than 127mm

**SKYMAX-150 (OTA)**  
Product Code: 10885



Sky at Night  
MAGAZINE  
**HIGHLY  
COMMENDED**  
**93%**



**JUPITER TAKEN THROUGH SKYMAX-127.**  
IMAGE COURTESY OF RUSSELL HAWKER, ENG.

*"Jupiter was a mesmerising sight" .....*  
*"High contrast optics indeed"*  
**BBC SKY AT NIGHT MAGAZINE**

### SKYMAX BLACK DIAMOND SERIES MAKSUTOV-CASSEGRAINS

*"For the ultimate Maksutov-Cassegrain experience, look no further than the SKYMAX Black Diamond range. Apart from their striking livery, selected models in this series use high-index Schott glass to deliver high power capability with a heightened degree of colour correction. For high-resolution lunar and planetary imaging, these optical tubes deliver stunning performance for the money."* **ADE ASHFORD, WWW.SCOPETEST.COM**



**SKYMAX-150 (EQ5)**  
Product Code: 10885/20464

### SKYMAX-150 (EQ5) 150mm (6") f/12 MAKSUTOV-CASSEGRAIN

- Magnifications with eyepieces supplied: x64
- Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 1800mm (f/12)
- Eyepieces Supplied (2"): 28mm LET • 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror • EQ5 Deluxe Heavy Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder • 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 39.5% more Light gathering than 127mm

**SKYMAX-150 (EQ5 PRO)**  
Product Code: 10885/20981



**SKYMAX-150 (EQ5 PRO) 150mm (6") f/12 GO-TO MAKSUTOV-CASSEGRAIN**

- Magnification with eyepiece supplied: x64 • Highest Practical Power (Potential): x450
- Diameter of Primary Mirror: 150mm • Telescope Focal Length: 1800mm (f/12)
- Eyepiece Supplied (2"): 28mm LET • 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- EQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Focusing by Moving Primary Mirror • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 39.5% more Light gathering than 127mm

**SKYMAX-180 (OTA) 180mm (7.1") f/15 MAKSUTOV-CASSEGRAIN**

- Magnification with eyepieces supplied: x108 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 25mm LET
- 9x50 Finderscope & Bracket
- 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- Dovetail Mounting Bar
- 44% more Light gathering than 150mm



**SKYMAX-180 (OTA)**  
Product Code: 10217



SATURN TAKEN THROUGH SKYMAX-150  
IMAGE COURTESY OF IAN PETERS, ENGLAND

**SKYMAX-180 (HEQ5 PRO) 180mm (7.1") f/15 GO-TO MAKSUTOV-CASSEGRAIN**

- Magnification with eyepieces supplied: x108 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 25mm LET
- 9x50 Finderscope & Bracket
- 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- Dovetail Mounting Bar
- HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 44% more Light gathering than 150mm



**SKYMAX-180 (HEQ5 PRO)**  
Product Code: 10217/20886

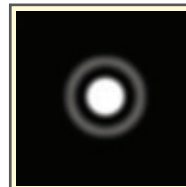


**SKYMAX-180 (EQ6-R PRO)**  
Product Code: 10217/20855

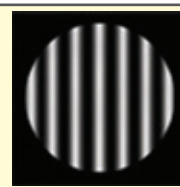


**SKYMAX-180 (EQ6-R PRO) 180mm (7.1") f/15 GO-TO MAKSUTOV-CASSEGRAIN**

- Magnification with eyepieces supplied: x108 & x300
- Highest Practical Power (Potential): x540
- Diameter of Primary Mirror: 180mm
- Telescope Focal Length: 2700mm (f/15)
- Eyepieces Supplied (1.25"): 9mm & 25mm LET
- 9x50 Finderscope & Bracket • 2"/50.8mm Star Diagonal
- Focusing by Moving Primary Mirror
- EQ6-R PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Dovetail Mounting Bar
- Built-in Polar Alignment Scope • 2" Stainless Steel Pipe Tripod with Accessory Tray
- 44% more Light gathering than 150mm



The artificial star test proves the ability of the optics to reproduce a pinpoint light source (star) as a pinpoint image. Concentric light circles will surround the pinpoint light dot. These increasingly faint light circles are unavoidable due to diffraction but being well concentric around the central light dot they are a warranty for good optical alignment of the lenses.

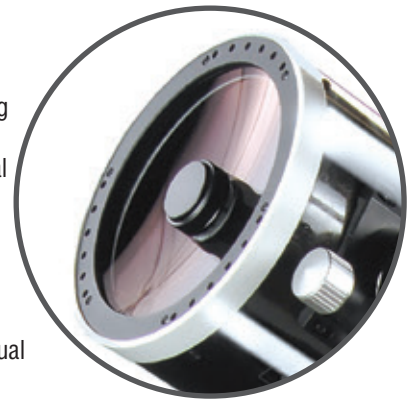


The essential function of a telescope is gathering starlight without "disturbing" it. This means changing the path of the lightwaves without altering the lightwave itself. Lightwaves all together are referred to as a wavefront. Alterations in this wavefront caused by the optics should be avoided. A wavefront analysis by Ronchi test will show an absence of wavefront alterations if the black and white lines (interference pattern) are perfectly straight and parallel.



## EXPLORER-190MN DS-PRO 190mm (7.5") f/5.26 DUAL-SPEED MAKSUTOV-NEWTONIAN ASTROGRAPH

The exciting Explorer-190MN is just what astrophotographers and serious visual observers have been looking for. Delivers truly stunning image quality, providing high-contrast, perfectly flat images, free from false colour. The Maksutov-Newtonian design provides large aperture Apochromatic performance, with exceptional field correction, in a compact, amazingly affordable package. Stars appear as classic pinpoints across the entire field. Perfectly optimised for modern DSLR cameras. The premium optics are housed in a robust rolled-steel tube for excellent mechanical integrity. Five internal knife-edge baffles are included to eliminate internal reflections and further enhance contrast. The Primary Mirror is made of low thermal expansion glass for a significantly reduced cool-down time. Compared to a similar sized Schmidt-Newtonian, the Maksutov-Newtonian yields a sharper and more contrasty image. Naturally, the Maksutov-Newtonian is an excellent visual performer too!!



### EXPLORER-190MN DS-PRO MAKSUTOV-NEWTONIAN OTA (WITH DUAL-SPEED FOCUSER)

*"The Schott glass corrector and optimised internal light baffles of Sky-Watcher's Explorer-190MN Pro ensures it delivers pin-sharp images, exceptional contrast, tight control of field curvature, spherical aberration and coma over a wide focal plane. Perfect for CCD and large-format DSLR cameras, this 190mm f/5.26 Maksutov-Newtonian offers the serious astroimager a premium astrographic instrument at a very competitive price - and it's a highly capable visual performer too!!"*

ADE ASHFORD, WWW.SCOPETEST.COM

## EXPLORER-190MN DS-PRO (OTA) 190mm (7.5") f/5.26 MAKSUTOV-NEWTONIAN

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm • Diameter of Secondary Mirror/Central Obstruction: 64mm • Telescope Focal Length: 1000mm (f/5.26) • Dual-Speed 10:1 Crayford Focuser 2"/50.8mm
- 9x50 Right-Angled Finderscope • Supplied without Eyepieces • Dovetail Mounting Bar & Tube Rings

EXPLORER-190MN DS-PRO OTA  
Product Code: 10205



*"In terms of build quality, the OTA itself is beautifully constructed. It's predominantly black sparkling livery oozes quality"... there were pin sharp stars all the way out to the edge of the field. It really is like having a 190mm triplet apochromat in your hands, but for a fraction of the cost"... Achieving greater than the quoted 500x was absolutely possible"... the image was nothing short of stunning at both the eyepiece and on the camera, close to matching the best I had seen from my C11"... "The field of view works incredibly well with larger format CCD or DSLR cameras in particular"... "The optics on this telescope are truly first class"... "One only has to look at some of the remarkable images taken by 190MN users to realise you can paint a real masterpiece"*

ASTRONOMY NOW MAGAZINE

## EXPLORER-190MN DS-PRO (HEQ5 PRO) 190mm (7.5") f/5.26 GO-TO MAKSUTOV-NEWTONIAN

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm
- Diameter of Secondary Mirror/Central Obstruction: 64mm
- Telescope Focal Length: 1000mm (f/5.26) • Dual-Speed 10:1 Crayford Focuser (2"/50.8mm)
- 9x50 Right-Angled Finderscope • Supplied without Eyepieces
- HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply) • 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope • 1.75" Stainless Steel Pipe Tripod with Accessory Tray

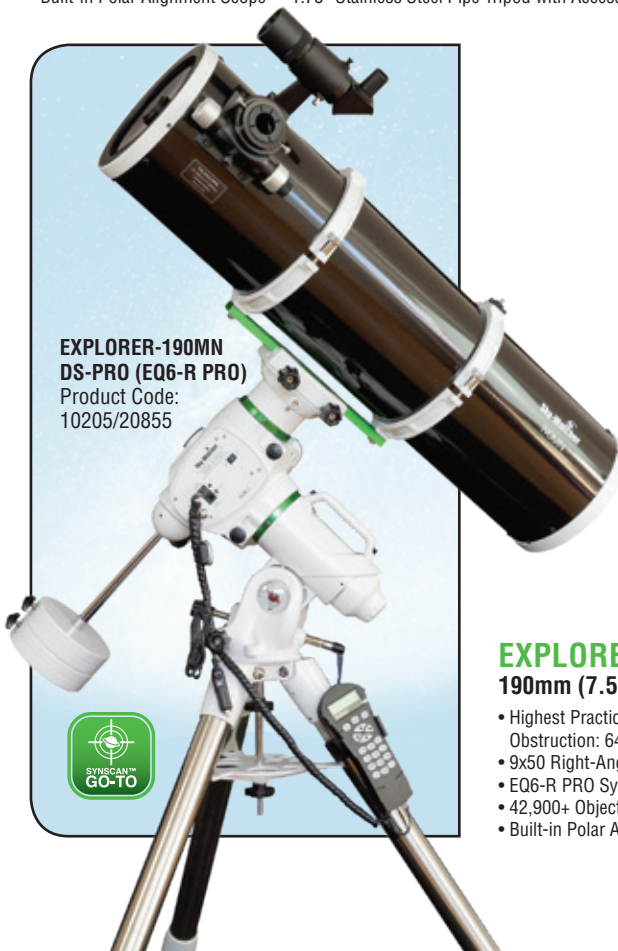


EXPLORER-190MN  
DS-PRO (HEQ5 PRO)  
Product Code:  
10205/20886



ORION NEBULA TAKEN THROUGH EXPLORER-190MN. IMAGE COURTESY OF STEVE LOUGHRAN, ENGLAND (Also used for front cover)

EXPLORER-190MN  
DS-PRO (EQ6-R PRO)  
Product Code:  
10205/20855



## EXPLORER-190MN DS-PRO (EQ6-R PRO) 190mm (7.5") f/5.26 GO-TO MAKSUTOV-NEWTONIAN

- Highest Practical Power (Potential): x570 • Diameter of Primary Mirror: 190mm • Diameter of Secondary Mirror/Central Obstruction: 64mm • Telescope Focal Length: 1000mm (f/5.26) • Dual-Speed 10:1 Crayford Focuser (2"/50.8mm)
- 9x50 Right-Angled Finderscope • Supplied without Eyepieces • Dovetail Mounting Bar
- EQ6-R PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues.
- Built-in Polar Alignment Scope • 2" Stainless Steel Pipe Tripod with Accessory Tray

## STARTRAVEL SHORT-TUBE REFRACTORS

Compact, two-element air-spaced, multi-coated achromatic refractors, are well proven performers for 'Rich-Field' views of Star Fields, Clusters, Nebulae, Bright Galaxies, Planets, the Moon and, the Sun (with correct safety filtering!), as well as giving excellent terrestrial views. These wide-field telescopes are also highly portable. They are also popular for use as guide scopes on larger telescopes. All models excel as fixed aperture lenses for both Astrophotography and terrestrial photography. Their "fast" focal ratios make them useful for capturing lunar and solar eclipses as well as nature photographs.



**STARTRAVEL-80  
TABLETOP**  
Product Code:  
10730

### STARTRAVEL ACHROMATIC REFRACTORS

*"For the ultimate in rugged travel 'scopes, a short focal ratio refractor is hard to beat. They hold collimation (optical alignment) well even under harsh treatment. The Sky-Watcher STARTRAVEL range offers good value for money and specifications that lend themselves well to terrestrial bird watching and wide-angle, deep-sky celestial viewing as well as terrestrial and astrophotography."*

ADE ASHFORD, WWW.SCOPETEST.COM



**STARTRAVEL-80 (EQ1)**  
Product Code: 10731

### STARTRAVEL-80 TABLETOP 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x16, x32, x40, x80
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm and 25mm
- x2 Barlow Lens
- 90° Diagonal Mirror 1.25"
- Red Dot Finder • Table-Top EQ1 Mount
- Tripod Bush for Photo-Tripod Mounting
- Soft Carrying Bag



**STARTRAVEL-80 (AZ3)**  
Product Code 10729

### STARTRAVEL-80 (EQ1) 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x16, x32, x40, x80
- Highest Practical Power (Potential): x160
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens (1.25") • Direct SLR Camera Connection
- 6x30 Finderscope • 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens • EQ1 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 77% more Light Gathering than 60mm



**STARTRAVEL-102 (AZ3)**  
Product Code: 10732

### STARTRAVEL-80 (AZ3) 80mm (3.1") f/5 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x15.4, x30.8, x32 & x64
- Highest Practical Power (Potential): x160
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 400mm (f/5)
- Eyepieces Supplied (1.25"): 12.5mm & 26mm Plossis
- x2 Barlow Lens (1.25")
- Direct SLR Camera Connection
- Red Dot Finder
- 90° Star Diagonal (1.25"/31.7mm)
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray
- 77% more Light Gathering than 60mm



**STARTRAVEL-102 (EQ1)**  
Product Code: 10733

### STARTRAVEL-102 (AZ3) 102mm (4") f/4.9 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser
- 45° Erect Image Diagonal 1.25"
- Multi-Coated Objective Lens
- AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray
- 62.5% more Light Gathering than 80mm



Andromeda taken through Startravel-102  
Image courtesy of Frederic Caron, Canada



Taken through Startravel-80  
Photo courtesy of William  
Ronald, Vancouver, BC, Canada

**Warning: Specialist Safety  
Filtering should always be used  
when viewing the Sun.**

### STARTRAVEL-102 (EQ1) 102mm (4") f/4.9 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x20, x40, x50, x100
- Highest Practical Power (Potential): x204
- Objective Lens Diameter: 102mm
- Telescope Focal Length: 500mm (f/4.9)
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser
- 1.25"/31.7mm Star Diagonal
- EQ1 Equatorial Mount
- Multi-Coated Objective Lens
- Aluminium Tripod with Accessory Tray
- 62.5% more Light Gathering than 80mm

### STARTRAVEL-80T (OTA) 80mm (3.1") f/5 ACHROMATIC REFRACTOR

Specification and optics same as Startravel-80 (EQ1) but comes with 45° Erect Image Diagonal, and supplied without Equatorial Mount and Tripod. Complete with tube rings & 1/4-20 tripod adaptor.



Product Code: 10734

### STARTRAVEL-102T (OTA) 102mm (4") f/4.9 ACHROMATIC REFRACTOR

Specification and optics same as Startravel-102 (AZ3) but supplied without Equatorial Mount and Tripod. Complete with tube rings & 1/4-20 tripod adaptor plate.



Product Code: 10735



## STARTRAVEL-120 (AZ3)

### 120mm (4.75") f/5 ACHROMATIC REFRACTOR

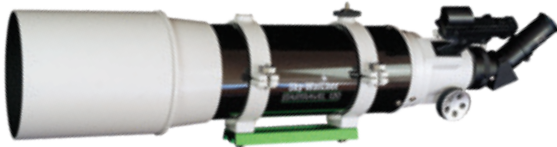
- Magnifications (with eyepieces supplied): x24 & x60 • Highest Practical Power (Potential): x240 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 600mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser • 45° Erect Image Diagonal 1.25"/31.7mm
- Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 38% more Light Gathering than 102mm

## STARTRAVEL-120T (OTA)

### 120mm (4.75") f/5 ACHROMATIC REFRACTOR

Specification and optics same as Startravel-120 (AZ3) but supplied without mount and tripod. Complete with Tube Rings and Dovetail Mounting Bar.

Product Code:  
10940



**STARTRAVEL-120 (AZ3)**  
Product Code: 10736

## STARTRAVEL-120 (EQ3-2)

### 120mm (4.75") f/5 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x24, x48, x60, x120
- Highest Practical Power (Potential): x240 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 600mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- Direct SLR Camera Connection • Red Dot Finder
- Dual-Fit 1.25"/2" Focuser • 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens • EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder • Aluminium Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

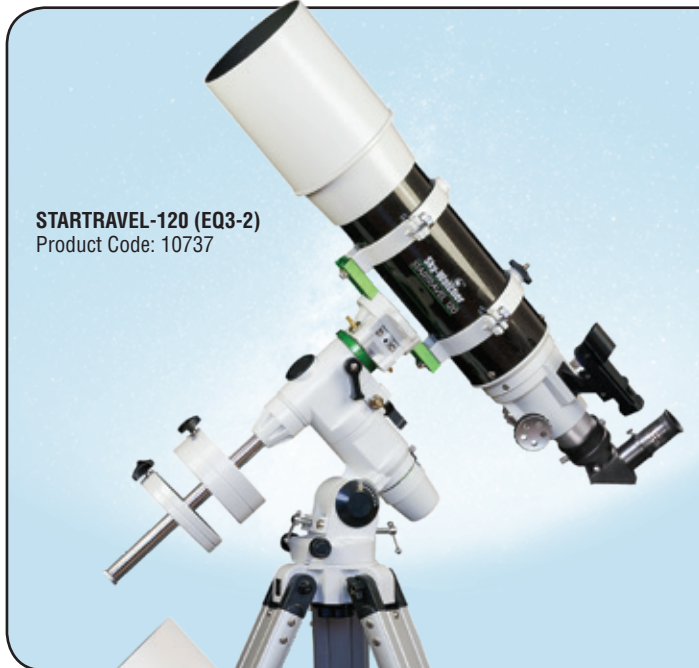
## STARTRAVEL-150 (EQ5)

### 150mm (6") f/5 ACHROMATIC REFRACTOR

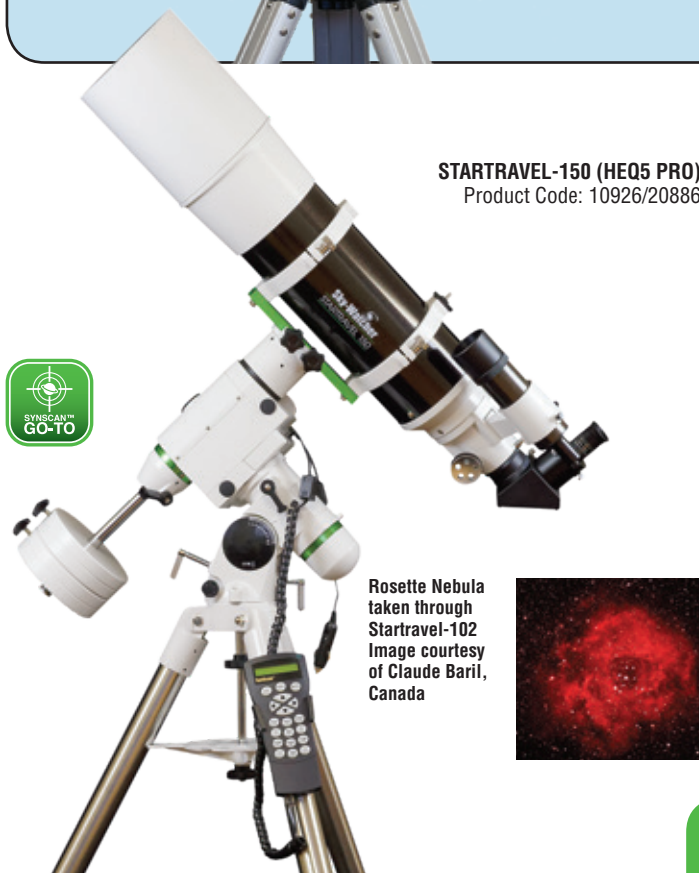
- Magnifications (with eyepieces supplied): x30 & x75 • Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm • Telescope Focal Length: 750mm (f/5)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- 9x50 Finderscope • 2" /50.8mm Star Diagonal
- Dual-Fit 1.25"/2" Focuser • Multi-Coated Objective Lens
- EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder • 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm



**STARTRAVEL-150 (EQ5)**  
Product Code: 10926/20464



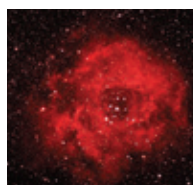
**STARTRAVEL-120 (EQ3-2)**  
Product Code: 10737



**STARTRAVEL-150 (HEQ5 PRO)**  
Product Code: 10926/20886



Rosette Nebula taken through Startravel-102 Image courtesy of Claude Baril, Canada



## STARTRAVEL-150 (HEQ5 PRO)

### 150mm (6") f/5 GO-TO ACHROMATIC REFRACTOR

- Magnifications (with Eyepieces supplied): x30 & x75 • Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 750mm (f/5) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope
- Dual-Fit 1.25"/2" Focuser • 2" /50.8mm Star Diagonal • 1.75" Stainless Steel Pipe Tripod with Accessory Tray • Multi-Coated Objective Lens
- Built-in Polar Alignment Scope • HEQ5 PRO SynScan™ Computerised Go-To Deluxe Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues
- 56% more Light Gathering than 120mm

## STARTRAVEL-150 (OTA) 6" f/5 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, 9x50 Finderscope, Tube Rings and Dovetail Mounting Bar. Product Code: 10926

The highly affordable Sky-Watcher MERCURY series of refractor telescope allow you to take your first steps into the fascinating world of astronomy. They are supplied with good levels of equipment for both astronomical and terrestrial observations. Although similar externally to many other telescopes on the market, these telescopes are supplied with superior 1.25" eyepieces and accessories (not 0.96" or hybrid 1.25") and moreover, the eyepieces have been specially selected to give a much more useful and practical range of magnifications, to increase your viewing experience. The Sky-Watcher CAPRICORN models make excellent choices for the more serious novice astronomer.

## MERCURY-607 60mm (2.4") f/11.6 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x35, x70, x140
- Objective Lens Diameter: 60mm • Telescope Focal Length: 700mm (f/11.66)
- Eyepieces Supplied (1.25"): 10mm & 20mm • x1.5 Erecting Eyepiece
- x2 Barlow Lens 1.25" • 5x24 Finderscope • 1.25"/31.7mm Star Diagonal
- Fully Coated Optics • Alt-Azimuth Mount • Aluminium Tripod with Accessory Tray



**MERCURY-707**  
Product Code: 10720



**MERCURY-607**  
Product Code: 10718

## MERCURY-707 70mm (2.75") f/10 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x28, x56, x70 & x140
- Highest Practical Power (Potential): x140 • Objective Lens Diameter: 70mm
- Telescope Focal Length: 700mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • 6x24 Finderscope
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens • Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm

## MERCURY-705 (AZ3) 70mm (2.75") f/7.1 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x20 & x50
- Highest Practical Power (Potential): x140 • Objective Lens Diameter: 70mm
- Telescope Focal Length: 500mm (f/7.1) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Red Dot Finder • 45° Erect Image Diagonal 1.25" • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm



**MERCURY-705 (AZ3)**  
Product Code: 10721

**CAPRICORN-70 REVIEW**  
*"Fine Optics and Accessories"*  
*...."Meets all expectations and is the perfect starter scope"*  
**BBC SKY AT NIGHT MAGAZINE**

## CAPRICORN-70 (EQ1) 70mm (2.75") f/12.8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x140
- Objective Lens Diameter: 70mm
- Telescope Focal Length: 900mm (f/12.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Barlow Lens • Red Dot Finder
- 1.25"/31.7mm Star Diagonal
- Multi-Coated Objective Lens
- EQ1 Equatorial Mount
- Aluminium Tripod with Accessory Tray
- 36% more Light Gathering than 60mm

**CAPRICORN-70 (EQ1)**  
Product Code: 10796

**MOON TAKEN THROUGH CAPRICORN-70 (EQ1)**  
IMAGE COURTESY OF DMITRY MATSNEV, RUSSIA  
*"I continue to open for myself the new opportunities of this excellent telescope"*





The Sky-Watcher EVOSTAR series are two-element, air-spaced, multi-coated objective achromatic refractors. They are truly outstanding, high-performance, high-resolution instruments manufactured to high standards of optical and mechanical precision. With their long focal lengths and breathtaking optical performance, they are ideal for the detailed high-power study of the Moon, Planetary Surfaces and other objects in our solar system, giving crisp contrasty images. These telescope packages will stand you in great stead for a lifetime of serious astronomical viewing.



**CAPRICORN-70 (AZ3)**  
Product Code: 10795

## CAPRICORN-70 (AZ3) 70mm (2.75") f/12.8 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x36, x72, x90, x180 • Highest Practical Power (Potential): x140 • Objective Lens Diameter: 70mm • Telescope Focal Length: 900mm (f/12.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Barlow Lens • 6x24 Finderscope
- 90° Erect Image Diagonal 1.25" • Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 36% more Light Gathering than 60mm



**EVOSTAR-90 (AZ3)**  
Product Code: 10723

### EVOSTAR ACHROMATIC REFRACTORS

"Refractors have long been coveted by many observers since the unobstructed optical system offers high contrast views much prized by lunar and planetary observers as well as many aspects of deep-sky viewing. Sky-Watcher's EVOSTAR range delivers a comprehensive range of robust, low-maintenance tube assemblies on matching mounts to suit all requirements."

ADE ASHFORD, WWW.SCOPETEST.COM



45° or 90° erect image diagonals are required for daytime nature study



90° diagonal is preferred for nighttime astronomical observations

## EVOSTAR-90 (AZ3) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

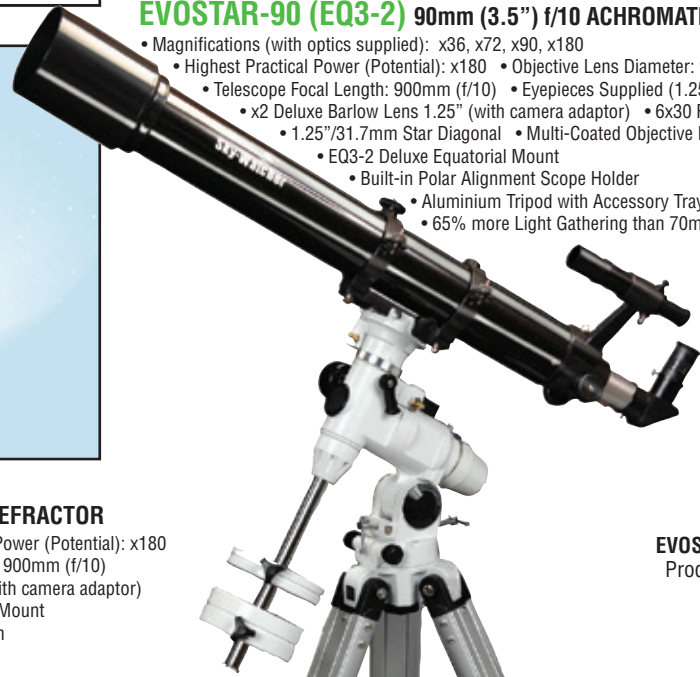
- Magnifications (with eyepieces supplied): x36 & x90
- Highest Practical Power (Potential): x180 • Objective Lens Diameter: 90mm • 6x30 Finderscope
- Telescope Focal Length: 900mm (f/10) • Eyepieces Supplied (1.25"): 10mm & 25mm
- 45° Erect Image Diagonal 1.25" • Multi-Coated Objective Lens • AZ3 Deluxe Alt-Azimuth Mount
- Aluminium Tripod with Accessory Tray • 65% more Light Gathering than 70mm

## EVOSTAR-90 (EQ3-2) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

- Magnifications (with optics supplied): x36, x72, x90, x180
- Highest Practical Power (Potential): x180 • Objective Lens Diameter: 90mm
- Telescope Focal Length: 900mm (f/10) • Eyepieces Supplied (1.25"): 10mm & 25mm
- x2 Deluxe Barlow Lens 1.25" (with camera adaptor) • 6x30 Finderscope
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens
- EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray
- 65% more Light Gathering than 70mm



**EVOSTAR-90 (EQ2)**  
Product Code 10724



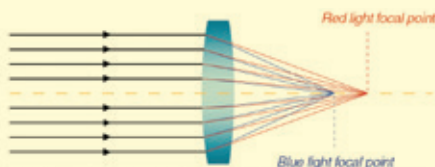
**EVOSTAR-90 (EQ3-2)**  
Product Code 10725

## EVOSTAR-90 (EQ2) 90mm (3.5") f/10 ACHROMATIC REFRACTOR

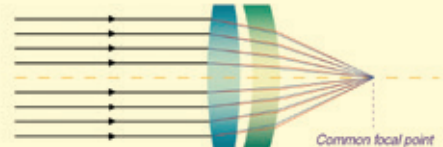
- Magnifications (with optics supplied): x36, x72, x90, x180 • Highest Practical Power (Potential): x180
- Objective Lens Diameter: 90mm • 6x30 Finderscope • Telescope Focal Length: 900mm (f/10)
- Eyepieces Supplied (1.25"): 10mm & 25mm • x2 Deluxe Barlow Lens 1.25" (with camera adaptor)
- 1.25"/31.7mm Star Diagonal • Multi-Coated Objective Lens • EQ2 Equatorial Mount
- Aluminium Tripod with Accessory Tray • 65% more Light Gathering than 70mm

### AIR-SPACED TWO-ELEMENT ACHROMATIC REFRACTORS

An ordinary single lens brings different wavelengths of light to different focal points



All Sky-Watcher Refractors are built with air-spaced, two-element lenses, which reduce chromatic aberration more than standard doublet lenses.





**EVOSTAR-102 (EQ3-2)**  
Product Code: 10726

## EVOSTAR-102 (EQ3-2) 102mm (4") f/9.8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x204 • Objective Lens Diameter: 102mm
- 6x30 Finderscope • Telescope Focal Length: 1000mm (f/9.8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Multi-Coated Objective Lens • EQ3-2 Deluxe Equatorial Mount
- Built-in Polar Alignment Scope Holder • Aluminium Tripod with Accessory Tray
- 28% more Light Gathering than 90mm

*"Highly regarded, reliable 102mm Retracting Telescope giving bright, contrasty images"*

**THE INDEPENDENT**

*(The Ten Best Telescopes feature. Chosen by Robin Scagell, Vice President of The Society for Popular Astronomy)*



**EVOSTAR-120 (EQ3-2)**  
Product Code: 10727

## EVOSTAR-120 (EQ3-2) 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x240 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 1000mm (f/8.33) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser
- 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ3-2 Deluxe Equatorial Mount • Built-in Polar Alignment Scope Holder
- Aluminium Tripod with Accessory Tray • 38% more Light Gathering than 102mm

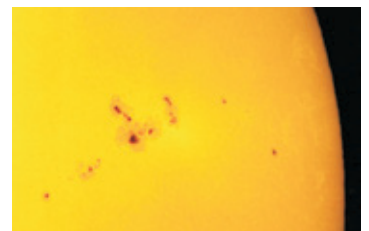


**EVOSTAR-120 (EQ5)**  
Product Code: 10939/20464

## EVOSTAR-120 (EQ5) 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x40 & x100 • Objective Lens Diameter: 120mm
- Highest Practical Power (Potential): x240 • Telescope Focal Length: 1000mm (f/8.33)
- Direct SLR Camera Connection • Eyepieces Supplied (1.25"): 10mm & 25mm
- 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Multi-Coated Objective Lens • EQ5 Deluxe Heavy-Duty Equatorial Mount
- Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

Pictures taken through Evostar-120 EQ5  
Image courtesy of Peter Roth, Canada



Warning: Specialist Safety Filtering should always be used when viewing the Sun



## EVOSTAR-120 (OTA) 120mm (4.75") f/8.3 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, Tube Rings, 9x50 Finderscope, and Dovetail Mounting Bar. *Product Code: 10939*

## EVOSTAR-120 (EQ5 PRO) 120mm (4.75") f/8.3 COMPUTERISED GO-TO REFRACTOR TELESCOPE

- Magnifications (with eyepieces supplied): x40 & x100
- Highest Practical Power (Potential): x240
- Objective Lens Diameter: 120mm • Telescope Focal Length: 1000mm (f/8.33)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection
- 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- Built-in Polar Alignment Scope • Multi-Coated Objective Lens
- EQ5 PRO SynScan™ Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray
- 38% more Light Gathering than 102mm

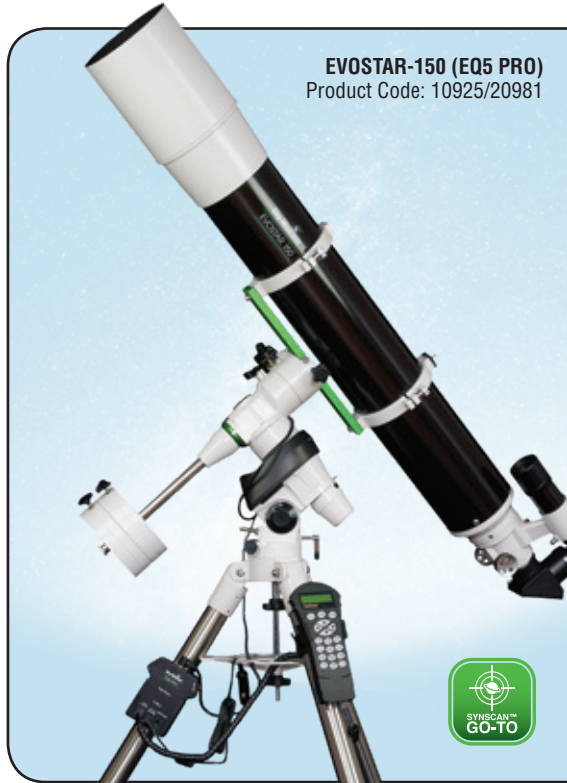


**EVOSTAR-120 (EQ5 PRO)**  
Product Code: 10939/20981



## EVOSTAR-150 (EQ5) 150mm (6") f/8 ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120
- Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 1200mm (f/8) • Eyepieces Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser
- 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ5 Deluxe Heavy-Duty Equatorial Mount • Built-in Polar Alignment Scope Holder
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm



## EVOSTAR-150 (OTA) 150mm (6") f/8 ACHROMATIC REFRACTOR

Tube assembly available separately. Supplied complete with 10mm & 25mm Eyepieces, 2" Star Diagonal, 9x50 Finderscope, Tube Rings and Dovetail Mounting Bar.  
Product Code: 10925



## EVOSTAR-150 (EQ5 PRO) 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x300
- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Eyepieces Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection • 9x50 Finderscope
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal • Multi-Coated Objective Lens
- EQ5 PRO SynScan™ Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply) • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm
- 42,900+ Object database containing complete Messier, NGC, and IC catalogues

## EVOSTAR-150 (HEQ5 PRO) 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120
- Highest Practical Power (Potential): x300 • Objective Lens Diameter: 150mm
- Telescope Focal Length: 1200mm (f/8) • Eyepiece Supplied (1.25"): 10mm & 25mm
- Direct SLR Camera Connection • 9x50 Finderscope • Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- HEQ5 PRO SynScan™ Super Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply)
- Multi-Coated Objective Lens • Built-in Dual-Axis Stepper Motors • Built-in Polar Alignment Scope
- 1.75" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm



## EVOSTAR-150 (HEQ5 PRO) 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

Product Code: 10925/20886



## EVOSTAR-150 (EQ6-R PRO) 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

### 150mm (6") f/8 COMPUTERISED GO-TO ACHROMATIC REFRACTOR

- Magnifications (with eyepieces supplied): x48 & x120 • Highest Practical Power (Potential): x300
- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Eyepiece Supplied (1.25"): 10mm & 25mm • Direct SLR Camera Connection • 9x50 Finderscope
- Dual-Fit 1.25"/2" Focuser • 2"/50.8mm Star Diagonal
- EQ6-R PRO SynScan™ Deluxe Super Heavy-Duty Computerised GO-TO Equatorial Mount (Requires 12 volt DC Power Supply) • Multi-Coated Objective Lens
- Built-in Dual-Axis Stepper Motors • Built-in Polar Alignment Scope
- 2" Stainless Steel Pipe Tripod with Accessory Tray • 56% more Light Gathering than 120mm

## EVOSTAR DS-PRO SERIES DUAL-SPEED ED APOCHROMATIC REFRACTORS

The high end EVOSTAR DS-PRO Series refractors all feature a doublet objective lens. One element is made from Extra-Low Dispersion (ED) glass, which virtually eliminates chromatic aberration to deliver true colour reproduction. Each objective is finished by hand by skilled opticians and the quality of each telescope is monitored by means of a Ronchi test and an artificial star test (see page 30). Sky-Watcher is a world leader in the manufacturing and design of premium ED-Apochromatic Refractors. They provide extremely high levels of performance for both imaging and visual astronomy. Apochromatic Refractors due to their unobstructed, text-book like diffraction patterns, produce the sharpest, highest quality optical imaging available, bar-none, aperture for aperture, of any telescope optical system.

### EVOSTAR-72ED DS-PRO (OTA)

Product Code: 10201



### EVOSTAR-72ED DS-PRO (OTA)

72mm (2.83") f/5.8 ED APOCHROMATIC REFRACTOR

- Highest Practical Power (Potential): x216
- Objective Lens Diameter: 72mm
- Telescope Focal Length: 420mm (f/5.8)
- Supplied without Eyepiece, Finderscope and 2" Star Diagonal
- Dual-Speed 2" Crayford Focuser 11:1 ratio (Backlash-Free)
- MHC Multi-Coated Objective Lens
- Standard Finderscope Shoe
- Tube Rings & 45mm Dovetail Bar (with 1/4-20 tripod threads)
- Weight 1955g/Length 42cm
- Aluminium Carrying Case

EVOSTAR DS-PRO ED APOCHROMATIC REFRACTORS "The discerning observer and astrophotographer will appreciate the near-perfect optical correction provided by the EVOSTAR DS-PRO series."

ADE ASHFORD, WWW.SCOPETEST.COM

### EVOSTAR-80ED DS-PRO (OTA)

80mm (3.1") f/7.5 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x21
- Highest Practical Power (Potential): x240
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 600mm (f/7.5)
- Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal
- 9x50 Finderscope
- Dual-Speed 10:1 2" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens
- Supplied with Tube Rings & Mounting Plate
- Aluminium Carrying Case

"Great all-round package...Overall this telescope packs a lot of punch... a complete setup with lovely crisp optics" BBC SKY AT NIGHT MAGAZINE



EVOSTAR-80ED DS-PRO (OTA)  
Product Code: 10202



EVOSTAR-80ED DS-PRO (EQ5 PRO)  
Product Code: 10202/20981

### EVOSTAR-80ED DS-PRO (EQ5 PRO)

80mm (3.1") f/7.5 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepieces Supplied: x21
- Highest Practical Power (Potential): x240
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 600mm (f/7.5)
- Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal
- 9x50 Finderscope
- Dual-Speed 11:1 2" Crayford Focuser (Backlash-Free)
- Multi-Coated Objective Lens
- EQ5 PRO SynScan™ Computerised Go-To Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC and IC catalogues
- Built-in Polar Alignment Scope
- Supplied with Tube Rings & Mounting Plate
- Aluminium Carrying Case (for OTA)

### EVOSTAR-100ED DS-PRO (OTA)

100mm (4") f/9 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x32
- Highest Practical Power (Potential): x300
- Objective Lens Diameter: 100mm
- Telescope Focal Length: 900mm (f/9)
- Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal
- 9x50 Finderscope
- Dual-Speed 10:12" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens
- Aluminium Carrying Case
- Supplied with Tube Rings & Mounting Plate

"I am immensely impressed with this telescope" SIR PATRICK MOORE CBE FRS  
(on Evostar-100ED, previous single-speed version)

### EVOSTAR-100ED DS-PRO (OTA)

Product Code: 10203



Awarded to Evostar-100ED (previous single-speed version)  
Group test: 4-inch Apochromatic Refractors under £3000

### Metallic High-Transmission Lens Coatings

Each air-to-glass lens surface has exotic anti-reflection metallic coatings applied to ensure optimum light through-put approaching 99.5%. The proprietary Sky-Watcher 'Metallic High-Transmission Coatings' (MHC) are the finest photon anti-rejection coatings in their class.



## EVOSTAR-120ED DS-PRO (OTA)

Product Code: 10204



## EVOSTAR-150ED DS-PRO (OTA)

150mm (6") f/8 ED APOCHROMATIC REFRACTOR

- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Dual-Speed 11:1 2" Crayford Focuser • MHC Multi-Coated Objective Lens
- Supplied with Tube Rings & 45mm Dovetail Mounting Bar
- OTA Length (Focuser Retracted): 1280mm • OTA Nett Weight (including supplied standard accessories): 9.5kg • Aluminium Carrying Case



**EVOSTAR-150ED DS-PRO (EQ6-R PRO)**  
Product Code: 10198/20855

## EVOSTAR-120ED DS-PRO (OTA)

120mm (4.75") f/7.5 ED APOCHROMATIC REFRACTOR

- Magnification with Eyepiece Supplied: x32
- Highest Practical Power (Potential): x360 • Objective Lens Diameter: 120mm
- Telescope Focal Length: 900mm (f/9) • Eyepiece Supplied (2"): 28mm LET
- 2"/50.8mm Di-Electric Star Diagonal • 9x50 Finderscope
- Dual-Speed 10:1 2" Crayford Focuser (Backlash-Free)
- MHC Multi-Coated Objective Lens
- Supplied with Tube Rings & Mounting Plate • Aluminium Carrying Case

## EVOSTAR-150ED DS-PRO (OTA)

Product Code: 10198



## EVOSTAR-150ED DS-PRO (EQ6-R PRO)

150mm (6") f/8 ED APOCHROMATIC REFRACTOR

- Objective Lens Diameter: 150mm • Telescope Focal Length: 1200mm (f/8)
- Dual-Speed 11:1 2" Crayford Focuser • MHC Multi-Coated Objective Lens
- EQ6-R PRO SynScan™ Computerised Go-To Equatorial Mount (Requires 12 volt DC Power Supply)
- 42,900+ Object database containing complete Messier, NGC and IC catalogues • Built-in Polar Alignment Scope
- Supplied with Tube Rings & 45mm Dovetail Mounting Bar • OTA Length (Focuser Retracted): 1280mm
- OTA Nett Weight (including supplied standard accessories): 9.5kg
- Aluminium Carrying Case (for OTA)

## ROTATIONAL ADAPTOR FOR EVOSTAR-72ED

- Allows 360° Rotation of the Reducer/Corrector
- Anti-slip thread
- Anodised Aluminium

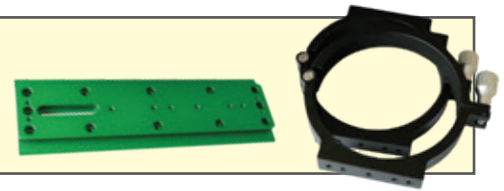
Product Code: 20500



## DELUXE ALUMINIUM TUBE RINGS & 75MM DOVETAIL BAR FOR EVOSTAR-150ED

Upgrade for the standard cast tube rings and 45mm dovetail bar supplied with the Evostar-150ED. Constructed from machined aluminium with an anodised finish. Overall weight 2.1kg.

Product Code: 20417/20757



## 0.85X FOCAL REDUCER/CORRECTOR FOR EVOSTAR-72/80/100/120/150ED DS-PRO

Each model is optimised for the corresponding model in the Evostar-ED DS-PRO series. They effectively reduce the telescope's focal length by a factor of 0.85x and provide much improved field-edge correction. Use in conjunction with Sky-Watcher's M48 Canon or Nikon T-ring adaptors shown right.

- 0.85x Focal Reducer/Corrector for Evostar-72ED DS-PRO
- 0.85x Focal Reducer/Corrector for Evostar-80ED DS-PRO
- 0.85x Focal Reducer/Corrector for Evostar-100ED DS-PRO
- 0.85x Focal Reducer/Corrector for Evostar-120ED DS-PRO
- 0.85x Focal Reducer/Corrector for Evostar-150ED DS-PRO



Product code 20232  
Product code 20236  
Product code 20235  
Product code 20234  
Product code 20321

## CANON/NIKON M48X0.75 ADAPTORS

Designed for attaching Canon or Nikon DSLR cameras to any of the Sky-Watcher 0.85x Focal Reducer/Correctors shown left.



**CANON M48x0.75 Adaptor**  
**NIKON M48x0.75 Adaptor**

Product Code: 20237  
Product Code: 20238

## ESPRIT ED PROFESSIONAL – SUPER APO TRIPLET REFRACTORS

Sky-Watcher Professional ESPRIT 3-Element ED Apochromatic Refractors are instruments of the highest quality with optical performance rivalling or exceeding similar telescopes of even the most famous high-end telescope brands. The ESPRIT Super Apo Triplets are designed for the most demanding astro-imagers, but are also fine telescopes for visual observations. The premium, superbly-corrected optical systems deliver high-contrast images full of detail and zero detectable colour fringing, even on the brightest of objects.

### MAIN FEATURES:

- 3-Element Objective Lens, including one Ohara FPL-53 ED element
- Rotatable, High Load Capacity CNC Machined 11:1 Dual-Speed Linear Power Focuser, with indexed scale.
- Zero detectable Colour Fringing even on Bright Objects • Metallic High-Transmission Lens Coatings
- Knife-edge Baffled Optical Systems • High-precision Mechanical Components
- Aluminium OTA material (superior to plain carbon-fibre for this application)



## ESPRIT-80ED PROFESSIONAL f/5 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 80mm • Telescope Focal Length: 400mm (f/5) • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 2.7" Dual-Speed Linear Power Focuser • 45mm Dovetail Bar • Fixed Dew Shield
- 33mm Image Circle (with flattener) • Heavy Duty Foam-Lined Storage/Transportation Case • Tube Weight: 3.97kg (without accessories)



Field Flattener for  
Esprit-80ED  
(M48x0.75)  
Product Code: 20187



## ESPRIT-100ED PROFESSIONAL f/5.5 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 100mm • Telescope Focal Length: 550mm (f/5.5) • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 3" Dual-Speed Linear Power Focuser • Aluminum Tube Rings • 75mm Dovetail Mounting Plate • Retractable Dew Shield
- 40mm Image Circle (with flattener) • Heavy Duty Foam-Lined Storage/Transportation Case • Tube Weight: 6.3kg (without accessories)



Field Flattener for  
Esprit-100ED (M48x0.75)  
Product Code: 20188





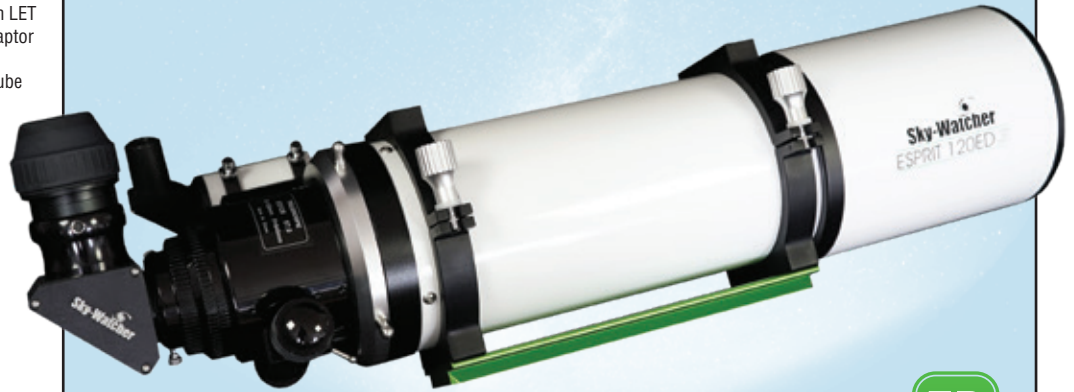
## ESPRIT-120ED PROFESSIONAL f/7 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 120mm • Telescope Focal Length: 840mm (f/7) • Eyepiece Supplied (2"): 28mm LET
- 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope
- 3" Dual-Speed Linear Power Focuser • Aluminum Tube Rings • 75mm Dovetail Mounting Plate
- Retractable Dew Shield • 44mm Image Circle (with flattener) • Aluminium Foam-Lined Carrying Case
- Tube Weight: 9.6kg (without accessories)



**Field Flattener for Esprit-120ED (M48x0.75)**  
Product Code: 20189

Product Code: 10233



*"The Esprit-120 really performed....I compared its performance with high-end Officina Stellare and Astro-Physics 105mm and 130mm apos employing similar premium glass. Even at high magnification with a 3mm eyepiece, star images appeared just as sharp, aberration-free and colourless as the best. I was impressed. On subzero (°C) nights once the telescope cooled down (after 30 to 45 minutes), it exhibited none of the aberration oddities I've seen in some test telescopes, effects created by cold temperatures pinching optics. This is evidence of the Esprit's excellent lens cell design, the area where aspiring apos sometimes fall short. ....With the field flattener, even when using a DSLR camera with a full frame (24mm x 36mm) sensor, star images were absolutely pinpoint corner to corner, free of any coma, astigmatism or lateral colour dispersion. This matched or surpassed the effectiveness of other telescope/field flattener combinations I've used. In short, the Esprit provided first-class optical performance visually and photographically....the Esprit-120's performance matches the best in the business at a competitive price....Sky-Watcher's Esprit refractors become very attractive options for anyone looking for the best"*

SKYNEWS MAGAZINE REVIEW BY ALAN DYER

## ESPRIT-150ED PROFESSIONAL f/7 SUPER APO TRIPLET REFRACTOR

- Objective Lens Diameter: 150mm • Telescope Focal Length: 1050mm (f/7) • Eyepiece Supplied (2"): 28mm LET • 2" (50.8mm) Di-Electric Star Diagonal with 1.25" Adaptor
- 9x50 Right Angled, Erect Image Finderscope • 3" Dual-Speed Linear Power Focuser • Aluminum Tube Rings • 75mm Dovetail Mounting Plate • Retractable Dew Shield
- 44mm Image Circle (with flattener) • Aluminium Foam-Lined Carrying Case • Tube Weight: 14.5kg (without accessories)

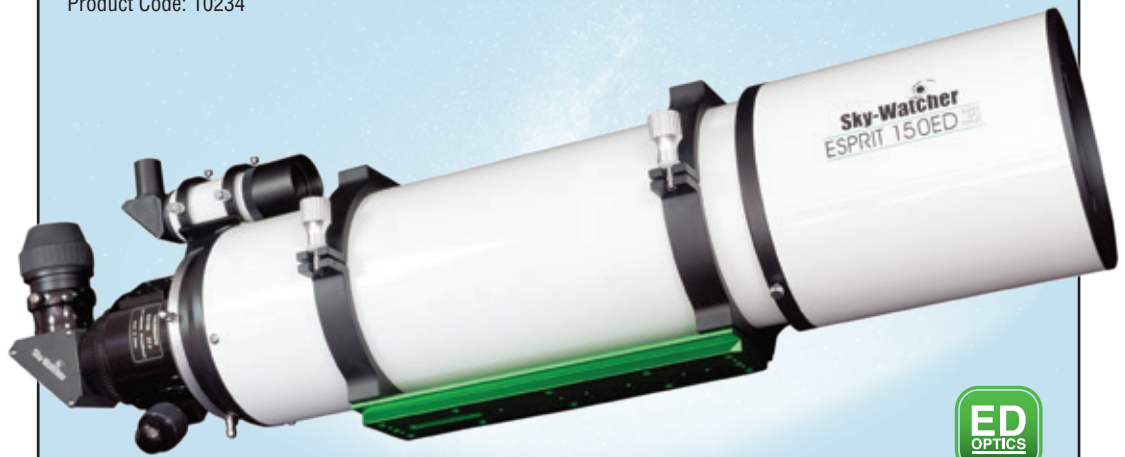
*"Using the Skywatcher Esprit-150ED for astrophotography is an absolute pleasure....the very first photograph that came from it was enough to convince me that it should find a permanent place in my observatory.... Using the matching flattener the stars are nice and round right to the edges of even a full frame format camera. Images of galaxies are superb, with crisp dust lanes and fine detail, and emission nebulae are brought to life with sharp cloud formations full of depth and contrast...Used with an eyepiece the telescope is equally capable, and the views of Saturn, Jupiter and star clusters have been breathtaking."*

TIM JARDINE, AWARD WINNING  
ASTROPHOTOGRAPHER



**Field Flattener for Esprit-150ED (M48x0.75)**  
Product Code: 20190

Product Code: 10234



*"Star images were excellent across the full width of the sensor, which is very impressive considering the large field-of-view, while star colours were recorded very well, showing that the 150ED is a great telescope for use with large-sensor DSLR cameras....offers strong competition to the established refractors from Takahashi and TEC. The optics feature a high level of correction across the field and star images through all filters were tight and consistent thanks to its superb colour correction."*

ASTRONOMY NOW MAGAZINE REVIEW BY NIK SZYMANEK

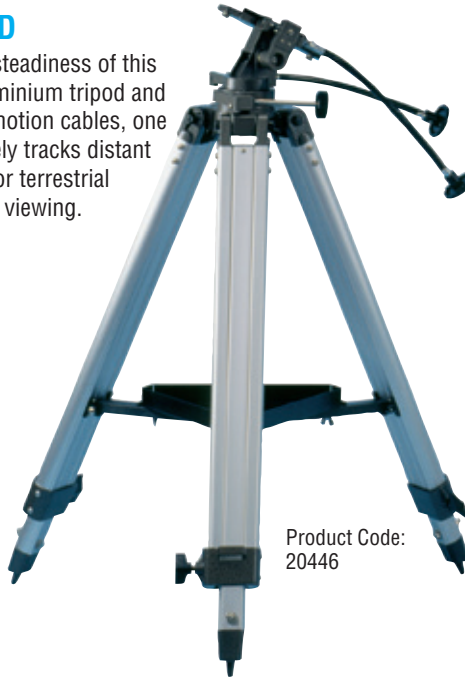
### Metallic High-Transmission Lens Coatings

#### Metallic High-Transmission Lens Coatings

Each air-to-glass lens surface has exotic anti-reflection metallic coatings applied to ensure optimum light through-put of approaching 99.5%. The proprietary Sky-Watcher "Metallic High-Transmission Coatings" (MHC) are the finest photon anti-rejection coatings in their class.

## AZ3 ALT-AZIMUTH MOUNT & TRIPOD

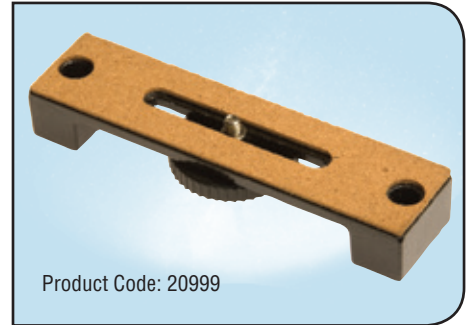
Spotting users love the precision control and rock steadiness of this high quality alt-azimuth mount with adjustable aluminium tripod and large accessory tray. It features two flexible slow-motion cables, one for vertical and one for horizontal control. Accurately tracks distant moving objects with ease. This mounting is ideal for terrestrial observations but can also be used for astronomical viewing.



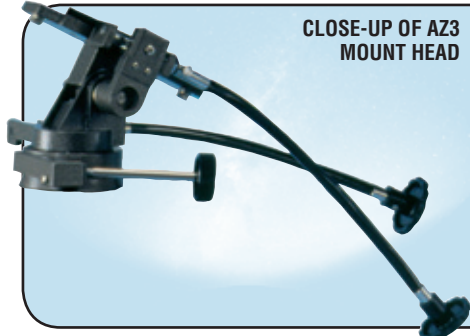
Product Code:  
20446

## TRIPOD ADAPTOR PLATE FOR AZ3

1/4-20 Adaptor Plate to allow the attachment of equipment via a standard tripod bush.



Product Code: 20999



CLOSE-UP OF AZ3  
MOUNT HEAD

## AZ4 HEAVY-DUTY ALT-AZIMUTH MOUNT & TRIPOD

The Sky-Watcher AZ4 Alt-Azimuth mount is extremely popular with astronomers and terrestrial observers alike. The design features separate friction clutches on both the Altitude and Azimuth axes and a panning arm, which can be fixed in two separate positions. The movements are buttery-smooth and telescopes can be manipulated with effortless precision. Telescope OTA's attach to the mount via a standard Sky-Watcher 45mm dovetail bar. Also supplied with this mount is an L-bracket which allows the easy attachment of a spotting scope or camera. Maximum recommended payload: Sky-Watcher D150/ F1200 Reflector Explorer-150PL.

### Available in two versions:

- 1) With lightweight aluminium legs for optimum portability (AZ4-1).
- 2) With 1.75" stainless steel legs for maximum strength and stability (AZ4-2).



AZ4-1  
(WITH ALUMINIUM  
TRIPOD LEGS)  
Product Code:  
20217



AZ4-2  
(WITH 1.75"  
STAINLESS STEEL  
TRIPOD LEGS)  
Product Code:  
20216

Close-up of  
AZ4 Mount  
Head



AZ PRONTO  
ALT-AZIMUTH  
MOUNT & TRIPOD  
Product Code: 20317

## AZ PRONTO ALT-AZIMUTH MOUNT & TRIPOD

A lightweight, highly portable Alt-Azimuth mount constructed from cast aluminium, designed to attach small telescopes up to 3kg in weight, fitted with a 45mm dovetail bar. Height adjustable aluminium telescopic tripod legs. Removable extension tube. Supplied with two flexible slow-motion cables, one for vertical and one for horizontal smooth fine motion control. The slow motion tracking cables can be positioned in a choice of two different positions on each axis, making it convenient to control both refractor and reflector telescopes. The mount can also be moved around each axis manually, for rapid panning and elevation adjustments.



Close-up of  
AZ PRONTO  
Mount Head





**AZ5 DELUXE ALT-AZIMUTH MOUNT & TRIPOD**  
Product Code: 20311

**SKYTEE-2 MOUNT & TRIPOD**  
Product Code: 20148/20798

## AZ5 DELUXE ALT-AZIMUTH MOUNT & TRIPOD

The Sky-Watcher AZ5 is a lightweight, portable Alt-Azimuth mount constructed from cast aluminium, designed to attach small telescopes up to 5kg in weight, fitted with a 45mm dovetail bar. Height adjustable aluminium telescopic tripod legs. Removable extension tube. Supplied with two flexible slow-motion cables, one for vertical and one for horizontal smooth fine motion control. The mount can also be moved manually around each axis, for rapid panning and elevation adjustments.

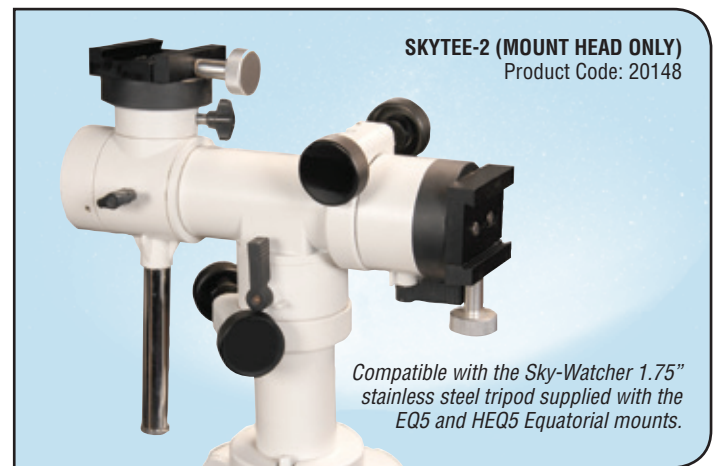
## AZ5 DELUXE MOUNT HEAD

Mount head with 3/8" Threaded Tripod Connection. With Slow-Motion Control Cables. Weight 2.3kg.  
Product Code: 20312



## SKYTEE-2 HEAVY DUTY DUAL-LOAD ALT-AZIMUTH MOUNT & TRIPOD

The OVL SKYTEE-2 is a heavy duty alt-azimuth mount capable of holding two telescope tubes of up to 15Kg each in parallel. A Sky-Watcher 45mm dovetail saddle plate is included on each side of the mount. Precise manual slow motion controls are provided on each axis. A counterweight bar is also included that accepts Sky-Watcher counterweights. Supplied with a Sky-Watcher 1.75" stainless steel tripod.



**SKYTEE-2 (MOUNT HEAD ONLY)**  
Product Code: 20148

*Compatible with the Sky-Watcher 1.75" stainless steel tripod supplied with the EQ5 and HEQ5 Equatorial mounts.*

Camera Not Included

**ALLVIEW™**  
Product Code: 50987



## ALLVIEW™ MULTI-FUNCTION COMPUTERISED MOUNT

The Sky-Watcher Allview™ can be used as a Go-To mount for Astronomy, a mount for Terrestrial 360° Panoramic or Still Time Lapse photography, Video Capture, or simply a stable motorised platform for mounting a spotting scope or binoculars. Please see page 79 for full details.

- Mount type: Alt-Azimuth with Freedom-Find™ dual-encoder technology
- Overall weight with tripod: 9.5kg
- Payload capacity: 5kg • Motor type: DC Servo Motors • Tracking Mode: Dual-Axis
- Quick release clutches for manual override
- Handset: Backlit LCD Screen, two-line 16 character display
- Multi-Function L-type mounting bracket • Accepts Standard 45mm Dovetail bars
- Bluetooth-to-serial adaptor compatible, for wireless control via PC
- Tripod supplied: stainless steel (extendable)
- Allview™ head can be detached and fitted to most Prosumer tripods via 3/8" thread
- Tracking Rates: Sidereal, Lunar & Solar • Alignment Method: Brightest Star & Two-star
- Slew Speeds: 1x, 2x, 8x, 16x, 32x, 200x, 400x, 600x, 800x & 1000x
- Go-to Pointing Accuracy: Up to 5 arc minutes, with Pointing Accuracy Enhancement Function (PAE)
- Synscan™ Handset Database: 42,900+ objects including complete Solar System, M, NGC, IC & SAO catalogues
- Power requirement: 8V to 15V DC 1Amp (Tip positive). Sky-Watcher power tank recommended or 10 x AA batteries (not supplied)

## SOLARQUEST™

### AUTOMATIC SOLAR GO-TO/TRACKING MOUNT & TRIPOD

Sky-Watcher's clever and technologically innovative SolarQuest™ mount is extremely user-friendly and provides a safe observing experience for automatically locating and tracking the sun with your solar telescope. For use with professionally made verified-safe solar telescopes only.

#### MAIN FEATURES:

- HeliFind™ Solar Alignment Technology: Solar Sensor with 4 x Photodiodes & built-in GPS data fixing to obtain time & location to calculate the sun's azimuth and altitude
- Auto drift correction through feedback from Solar Sensor
- 8-Way Sliding Switch for Centring Sun in Field of View
- Tracking Mode: Dual Axis Tracking
- Motor: DC Servo Motor, Gear Ratio 6480
- Payload Capacity: 4kg
- 45mm dovetail saddle
- 3/8" Screw Fittings (tripod/mount)
- Adjustable Aluminium Tripod with Accessory Tray
- Mount Head Weight: 1.3kg
- Total Weight with Tripod: 4.05kg
- Power Requirement: 8 AA Size Batteries (not supplied) or External Power Supply DC 12V, Tip Positive (via adaptor panel).



## STAR DISCOVERY Wi-Fi GO-TO MOUNT & TRIPOD

Designed to be controlled wirelessly with your Smartphone or Tablet, using the free SynScan™ App for iOS or Android. The SynScan™ App provides full computerised GO-TO control, allowing your telescope to be automatically slewed to any one of the objects in the App's extensive database of 10,000+ celestial objects. Incorporates Freedom-Find™ Dual-Encoder Technology, which allows the telescope to be moved manually in either axis without the mount losing its positional information. Payload capacity of up to 5kg and accepts standard 45mm Dovetail Bars. Compatible with Synscan handset & cable (Product Code 20948/20160). Power Requirement: 8 AA Size Batteries (not supplied) or External Power Supply (DC 12V, 1A) Tip Positive.



## AZ-GTi Wi-Fi GO-TO ALT-AZIMUTH MOUNT & TRIPOD

Designed to be controlled wirelessly with your Smartphone or Tablet, using the free SynScan™ App for iOS or Android. The SynScan™ App provides full computerised GO-TO control, allowing your telescope to be automatically slewed to any one of the objects in the App's extensive database of 10,000+ celestial objects. Incorporates Freedom-Find™ Dual-Encoder Technology, which allows the telescope to be moved manually in either axis without the mount losing its positional information. Payload capacity of up to 5kg and accepts standard 45mm Dovetail Bars. Compatible with Synscan handset & cable (Product Code 20948/20160). Power Requirement: 8 AA Size Batteries (not supplied) or External Power Supply (DC 12V, 0.75A) Tip Positive.



## SOLARQUEST™ (MOUNT HEAD ONLY)

3/8" Tripod Thread



*"The SolarQuest is elegant in its simplicity and works like a dream" ... "impressively, over a five-hour period the Sun's disc remained within the central part of the reticule."*

**BBC SKY AT NIGHT MAGAZINE**

## AZ-GTi Wi-Fi GO-TO (MOUNT HEAD ONLY)

3/8" Tripod Thread. Weight 1.3kg





## STAR ADVENTURER MINI (SAM) Wi-Fi ASTRO-IMAGING MOUNT

The Sky-Watcher Star Adventurer Mini Wi-Fi (SAM) is a compact high-precision camera tracking platform that is ideal for long exposure astrophotography as well as time-lapse photography in daytime and night time settings. It easily fits in your backpack or camera bag, making it a convenient travel companion that can venture with you into remote locations. It comes with built-in Wi-Fi and the free Star Adventurer Mini Console App for Android and iOS platforms is available, allowing it to be remotely controlled with your smartphone. SAM is easy to set up and to operate in all of its modes. Although capable of supporting larger camera lenses, it is ideal and very simple to use for Widefield Astrophotography with a standard camera lens of 55mm or shorter focal length, as only a rough polar alignment is necessary, making it ideal for all kinds of amateur photographers unfamiliar with astronomy. Sky-Watcher shutter release cables can be purchased separately for most popular camera models/brands (see page 79).

### PRODUCT FEATURES:

- Maximum recommended camera lens focal length: 100mm
- Built in Wi-Fi - Wirelessly control with your smartphone
- High precision, portable and stable camera tracking system
- Free App available for Android and iOS platforms
- Solar, lunar and sidereal tracking rates for astrophotography
- Payloads up to 3kg
- Easy Polar Alignments with polar scope
- Astrophotography and Astro time-lapse photography
- Short and long exposure time-lapse photography
- Provides DSLR shutter control for multiple brands
- Built-in motor protection and status indicators
- Power Options: AAx2 Batteries or external USB supply
- Fits standard 3/8 and 1/4 inch tripod/quick release brackets
- Weight (SAM mount module only): 650g
- Dimensions (SAM module only): 76x70x103mm



**SAM PHOTO PACK:** includes the Star Adventurer Mini Wi-Fi (SAM) module, Ball Head Adaptor, Polarscope and Polarscope Illuminator.  
Product Code: 50205

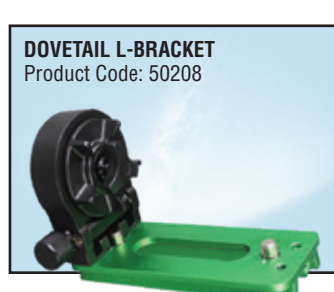


**SAM PRO PACK:** includes the Star Adventurer Mini Wi-Fi (SAM) module, Ball Head Adaptor, Polarscope, Polarscope Illuminator, Equatorial Wedge and Dovetail L-Bracket.  
Product Code: 50210

**Sky at Night MAGAZINE**  
★★★★★  
**REVIEWED IN Issue 143 April 2017**



**EQUATORIAL WEDGE**  
Product Code: 50207



**DOVETAIL L-BRACKET**  
Product Code: 50208



**1KG COUNTERWEIGHT KIT**  
Product Code: 50204



**FOTOMATE H-28QR BALL HEAD**  
Product Code: 50408

### SAM FUNCTIONALITY

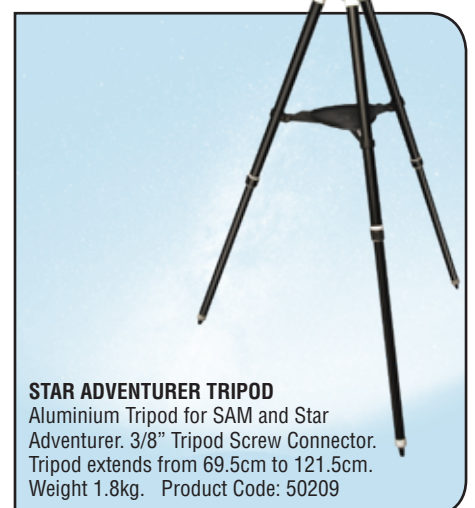
The Star Adventurer Mini Wi-Fi can attach to any standard tripod via its 1/4" or 3/8" adaptors. The latitude can be set by either adjusting the tilt of your tripod head to match your latitude or more accurately by purchasing the Equatorial Wedge (Product Code 50207). To fit a camera to the Star Adventurer Mini, either a tripod Ball Head is required (Product Code 50408) or the optional Dovetail L-Bracket (Product Code 50208). The optional Dovetail L-Bracket can be used in conjunction with the optional counterweight shaft/counterweight (Product Code 50204).



SAM shown with Equatorial Wedge, Dovetail L-Bracket & DSLR fitted



SAM shown with Equatorial Wedge, Ball Head & DSLR fitted



**STAR ADVENTURER TRIPOD**  
Aluminium Tripod for SAM and Star Adventurer. 3/8" Tripod Screw Connector. Tripod extends from 69.5cm to 121.5cm. Weight 1.8kg. Product Code: 50209

## STAR ADVENTURER ASTRO-IMAGING MOUNT WITH ST4 AUTOGUIDER INTERFACE

The user-friendly Sky-Watcher Star Adventurer provides various combinations to satisfy all your needs for astrophotography and time-lapse photography. It is a high precision, portable and stable celestial tracking platform for Sidereal, Solar and Lunar tracking with automatic DSLR shutter release control. Moreover, it contains pre-programmed parameters assisting you to create interesting time-lapse videos with your DSLR. Sky-Watcher shutter release cables can be purchased separately for most popular camera models/brands (see page 79).



## PRODUCT FEATURES

- Multiple pre-programmed speeds for time lapse photography
- Tracking rate selectable between Sidereal, Solar and Lunar
- Built in polarscope with illuminator
- DSLR interface for automatic electronic shutter control
- Built-in ST4 auto-guiding interface for R.A. auto-guiding
- Low power consumption
- External Mini USB power support
- Compatible with 3/8" and 1/4" camera tripod threads
- Free firmware upgrades
- Payload Capacity 5kg (11 lb)
- Mount Type Ultra compact equatorial tracking platform
- Motor Drive DC Servo
- Power Supply 4xAA batteries: DC 3.6V-6.5V; External power supply DC 5V
- Tracking Modes Sidereal, Solar or Lunar tracking rate for both North & South hemispheres.
- Time-lapse photography: 12hr/4hr/2hr rev.
- Weight (module only): 1kg



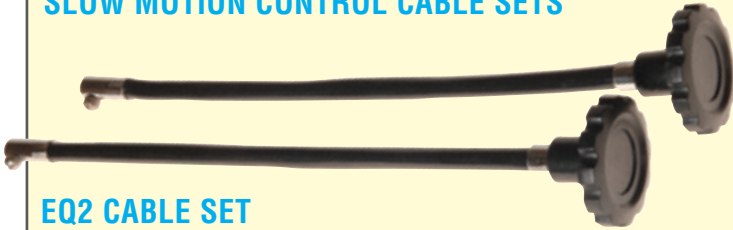
## STAR ADVENTURER FUNCTIONALITY

The Star Adventurer can attach to any standard tripod via its 1/4" or 3/8" adaptors. The latitude can be set by either adjusting the tilt of your tripod head to match your latitude or more accurately by purchasing the optional Equatorial Wedge (Product Code 50207). To fit a camera, either the optional Ball Head (Product Code 50408) is required or the optional Dovetail L-Bracket (Product Code 50208). The optional Dovetail L-Bracket used in conjunction with the optional counterweight shaft/counterweight (Product Code 50204) also allows small telescopes (e.g. Skymax-90), with a 1/4-20 tripod fitting, to be used with the Star Adventurer. A small telescope and camera (using a ball head, not supplied) can be mounted simultaneously on the Dovetail L-Bracket. Using just the dovetail bar from the optional Dovetail L-Bracket, two cameras can be mounted at the same time using two optional ball heads.





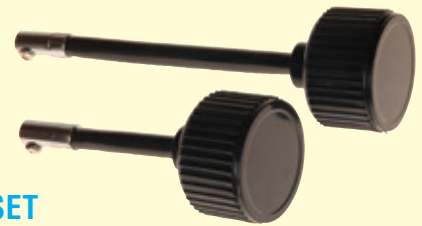
## SLOW MOTION CONTROL CABLE SETS



### EQ2 CABLE SET

(29cm/33cm) - Product Code: 20485

Note: Both of the above cable sets will fit the EQ2, EQ3-2, EQ5 and AZ3 mounts



### EQ3-2 CABLE SET

(13cm/19cm) - Product Code: 20483

## EQ1 EQUATORIAL MOUNT & TRIPOD

The EQ1 Equatorial Mount is suited to beginners in astronomy. This mount features 360° slow-motion tracking gears on both the right ascension and declination axes with flexible controls. Dual metal setting circles allow location of objects by their R.A. and DEC. coordinates. A separate latitude adjustment aids in polar alignment.

**Not Available Separately**



## EQ2 EQUATORIAL MOUNT & TRIPOD

The EQ2 Equatorial Mount is suited to both beginners and experienced astronomers, offering very good stability. This mount features 360° slow-motion tracking gears on both the right ascension and declination axes with flexible controls. Dual metal setting circles allow location of objects by their R.A. and DEC. coordinates. A separate latitude adjustment aids in polar alignment.

Product Code: 20447



## R.A. ECONOMY MOTOR DRIVE FOR EQ1

Can be fitted to any of our telescopes supplied with the EQ1 equatorial mount, Provides single-speed (1x Sidereal) motor tracking of the R.A. Axis. Battery Powered.

(Product Code: 20449)



## R.A. ECONOMY MOTOR DRIVE FOR EQ2

Can be fitted to any of our telescopes supplied with the EQ2 equatorial mount, Provides single-speed (1x Sidereal) motor tracking of the R.A. Axis. Battery Powered.

(Product Code: 20998)



## R.A. MOTOR DRIVE FOR EQ1

(with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ1 equatorial mount, Provides multi-speed (1x/2x/4x) motor tracking of the R.A. Axis. Battery Powered.

(Product Code: 20955)



## R.A. MOTOR DRIVE FOR EQ2

(with Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ2 equatorial mount, Provides multi-speed (1x/2x/4x) motor tracking of the R.A. Axis. Battery Powered.

(Product Code: 20407)



## SKY-WATCHER 45mm EQUATORIAL MOUNTING PLATES

Compatible with Sky-Watcher EQ3-2, EQ5, AZ-EQ5GT, HEQ5, EQ6 & AZ-EQ6GT Mounts and drilled to accept Sky-Watcher tube rings.

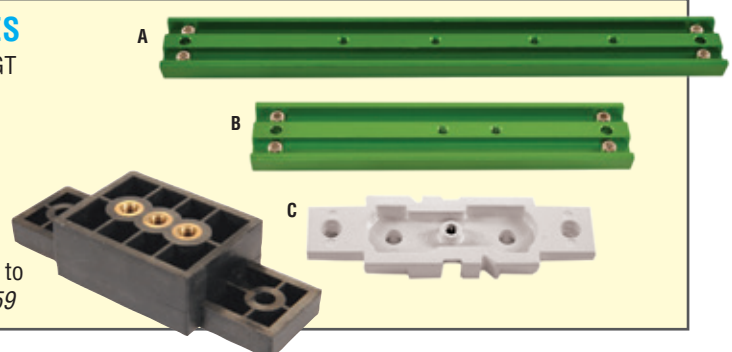
A) Long 33.5cm Dovetail Bar (Product Code: 20759)

B) Medium 21cm Dovetail Bar (Product Code: 20758)

C) Short 15cm Mounting Plate (Product Code: 20549)

## MULTI-FUNCTION MOUNT PLATE

Accepts Sky-Watcher tube rings and allows small telescopes to be connected to a photographic tripod via a standard 1/4-20 tripod bush Product Code: 20459



## EQ3-2 DELUXE EQUATORIAL MOUNT & TRIPOD

The superb EQ3-2 mount receives high marks from experienced observers. This sturdy mount offers precision and stability for the serious astronomer. A bubble level allows for quick and accurate levelling. Slow-motion control knobs allow for continuous manual tracking of celestial objects. The precision mount features full 360° worm-gear tracking controls on both R.A. and DEC. axes. Dual metal setting circle dials allow quick location of targets. An optional polarscope is available for aiding in polar alignment. Supplied with aluminium tripod. Maximum payload approx. 6.5kg.

### R.A. MOTOR DRIVE FOR EQ3-2

(With Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ3-2 equatorial mount, Provides multi-speed (1x/2x/8x) motor tracking of the R.A. Axis. Battery Powered.



Product Code: 20362

### DUAL-AXIS MOTOR DRIVE FOR EQ3-2

(With Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ3-2 equatorial mount, Provides multi-speed (1x/2x/8x) motor tracking of the R.A. and DEC Axes. Battery Powered.



Product Code: 20406

### ENHANCED DUAL-AXIS MOTOR DRIVE FOR EQ3-2 MOUNT (With Multi-Speed Handset and ST4 Auto-Guider Interface)

Supplied with Sky-Watcher's new enhanced dual-axis hand controller with ST4 interface for an Auto-Guider. Essential in long-exposure astrophotography as well as a useful accessory for visual astronomy. Features selectable Solar, Lunar and Sidereal tracking rates, plus additional selectable adjustment rates of 0.5x, 2x and 16x. Battery powered.



Product Code: 20300



**EQ3-2 DELUXE EQUATORIAL MOUNT & TRIPOD**  
Product Code: 20448

## EQ5 DELUXE HEAVY-DUTY EQUATORIAL MOUNT & TRIPOD

The very sturdy EQ5 Equatorial mount provides excellent precision and stability and a host of other useful features for the serious astronomer. Supplied complete with a bubble level, latitude adjuster with micrometer scale and an azimuth polar-alignment adjuster. It also features engraved aluminium setting circles and manual slow motion tracking controls. An optional polarscope is available for aiding in polar alignment. Supplied with 1.75" stainless steel tripod and accessory tray. Maximum payload approx. 9kg.

### R.A. MOTOR DRIVE FOR EQ5

(With Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ5 equatorial mount. Provides multi-speed (1x/2x/8x) motor tracking of the R.A. Axis. Battery Powered.



Product Code: 20462

### DUAL-AXIS MOTOR DRIVE FOR EQ5

(With Multi-Speed Handset)

Can be fitted to any of our telescopes supplied with the EQ5 equatorial mount. Provides multi-speed (1x/2x/8x) motor tracking of the R.A. and DEC Axes. Battery Powered.



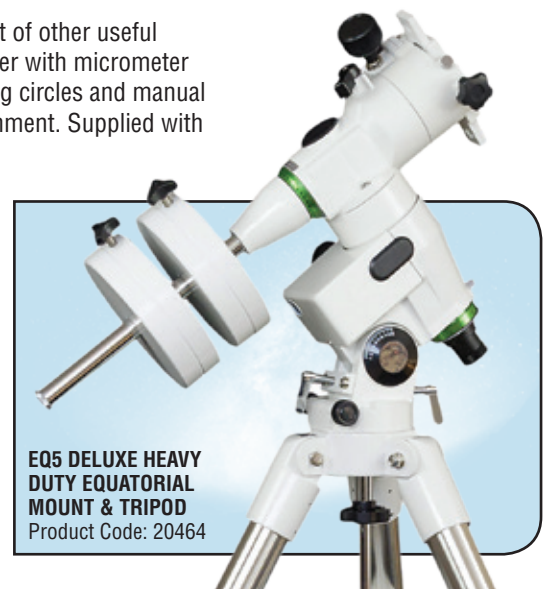
Product Code: 20463

### ENHANCED DUAL-AXIS MOTOR DRIVE FOR EQ5 MOUNT (With Multi-Speed Handset and ST4 Auto-Guider Interface)

Supplied with Sky-Watcher's new enhanced dual-axis hand controller with ST4 interface for an Auto-Guider. Essential in long-exposure astrophotography as well as a useful accessory for visual astronomy. Features selectable Solar, Lunar and Sidereal tracking rates, plus additional selectable adjustment rates of 0.5x, 2x and 16x. Battery powered.



Product Code: 20301



**EQ5 DELUXE HEAVY DUTY EQUATORIAL MOUNT & TRIPOD**  
Product Code: 20464

### POLAR ILLUMINATOR FOR EQ3-2/EQ5 MOUNTS

This battery operated LED illuminator easily attaches to the exit hole of the polar axis bore of both the EQ3-2 and EQ5 Equatorial Mounts. Provides illumination to the polarscope reticule. A useful aid to the polar alignment procedure. Adjustable light intensity.

Product Code: 20501





## SKY-WATCHER SYNSCAN™ PRO SERIES GO-TO EQUATORIAL MOUNTINGS

**SIMPLY THE STATE-OF-THE-ART. TOUR THE NIGHT SKY AT THE TOUCH OF A BUTTON.**

For amateur astronomers seeking superior equatorial control and the ease of a high-precision computerised Go-To telescope mounting system for imaging or visual applications, the family of SynScan™ Pro-Series mountings are the answer. All SynScan™ Pro-Series models are premium-grade observing platforms which have been thoughtfully designed for ease of operation. With the user-friendly push-button hand control, locating and viewing the treasures of the night sky becomes as easy as a walk in the park. The SynScan™ hand control allows you to point the telescope at a specific object or even tour the skies at the touch of a button. The user-friendly menu system allows automatic slewing to over 42,900 objects. Even an inexperienced astronomer can master its variety of features in a few observing sessions. The mounts differ mainly in their physical size/weight and their payload capacities. They all come with the following advanced features that even the most discerning observers will appreciate.

### SYNSCAN™ PRO EQUATORIAL GO-TO MOUNTINGS

*"For prolonged observations and astro-imaging, one should consider the SynScan™ Equatorial range. Offering a mount to suit every size of instrument likely to be used by the average observer, these precision equatorials use a common hand controller with a comprehensive feature set capable of consistently locating and tracking thousands of celestial objects. Time and time again, they offer the benchmark standard for the price."*

ADE ASHFORD, WWW.SCOPETEST.COM

### COMMON FEATURES

- **SynScan™ Computerised Handset**  
Features include ongoing firmware updateability via the internet. Pointing accuracy enhancement (PAE), and capability to store star alignment data. Accepts GPS Mouse for convenient entry of time, date and location.
- **42,900+ Object Database** Including Planets, Named Stars, Double-Stars, Variable Stars & User-Defined Objects. Messier, IC, NGC & Caldwell Object Catalogues.
- **Periodic Error Correction (PEC)** Training is included for astro-photography without auto-guiding
- **Alignment Methods**  
1-Star, 2-Star or 3-Star alignments. Built-in polarscope
- **Positioning Accuracy** Up to 1 arc minute. Accuracy enhanced by software collimation error (mount mechanical error) compensation.
- **High Slewing Speed** Up to 3.4°/sec (800x)
- **High Torque, Extra-Quiet Stepper Motors**
- **Minimal Vibration** For steady long-exposure photography
- **Auto-Guider Interface** For astro-photography
- **Auto-Guider Guiding Speed** Selectable from 0.25x, 0.5x, 0.75x or 1.0x
- **PC Compatible** Can be controlled remotely by PC using popular planetarium software.

### EQ3 PRO SYNSCAN™

Payload Capacity up to 6.5kg. Supplied with Aluminium Tripod (Product Code: 20230)

### EQ5 PRO SYNSCAN™

Payload capacity up to 9kg Supplied with 1.75" Stainless Steel Tripod (Product Code: 20981)

### EQM-35 PRO SYNSCAN™

Payload Capacity up to 10kg. Modular design allows removal of heavy DEC axis to make lightweight photo-imaging capable mount. Supplied with 1.75" Stainless Steel Tripod (Product Code: 20980)



## GPS MOUSE

A plug-in accessory for the V.3/V.4/V.5 SynScan™ handsets that uses global positioning satellite technology to automatically locate and input the users position (longitude & latitude) to the handset.

Product Code: 20957



## SYNGUIDER™ AUTO-GUIDER

The SynGuider™ can guide an equatorial mount without the help of a computer, improving productivity during astrophotography sessions, helping you to obtain perfectly round stars during long exposure times. Supplied with guiding handset & cable, serial cable and battery pack. Requires 4 x D-size 1.5v batteries or alternative power supply meeting DC6V-12V (lower voltage recommended), 250Ma output current, 2.1mm power jack central positive.

Product Code: 20240



## HEQ5 PRO SYNSCAN™

Product Code: 20886

Payload Capacity up to 18kg. Supplied with 1.75" Stainless Steel Tripod

*"I like these mounts, they are solid, well thought out and work quietly and effectively"*

ASTRONOMY NOW MAGAZINE

*"The Three-star alignment accurately corrects for cone error and subsequent GO-TO accuracy was impressive."*

BBC SKY AT NIGHT MAGAZINE



Sky at Night MAGAZINE  
**GROUP TEST WINNER**  
92%

Review of GO-TO Mounts & Tripods under £1350



HEQ5 PRO SYNSCAN™  
Product Code: 20886

## EQ6-R PRO SYNSCAN

Improved version of EQ6 PRO. Imaging Payload Capacity up to 20kg. Belt Driven. Supplied with 2" Stainless Steel Tripod.

Product Code: 20855

## EQ6 PRO SYNSCAN™

Payload Capacity up to 25kg. Supplied with 2" Stainless Steel Tripod  
Product Code: 20854

*"Best for heavy scopes"....*

*"We practically had to thump it to induce any vibrations"*

BBC SKY AT NIGHT MAGAZINE



Astronomy **HOT** Product

Applies to both HEQ5 PRO SynScan™ & EQ6 PRO SynScan™ mounts

EQ6 PRO SYNSCAN™  
Product Code: 20854

EQ6-R PRO SYNSCAN  
Product Code: 20855

Sky at Night MAGAZINE  
★★★★★  
REVIEWED IN  
Issue 145  
June  
2017



## SYNSCAN™ Wi-Fi ADAPTOR

Enables all of Sky-Watcher's Go-To mountings and telescopes to be controlled wirelessly from your smartphone or tablet using either the SynScan™ App or SynScan™ PRO App, which are available for free download from either the Google Play or App Store. Wireless control is also possible via ASCOM from a PC.

Product Code: 20318

## SKY-WATCHER POWER TANKS

These extremely portable 12v rechargeable power supplies are suitable for use with all SynScan™, SynTrek™ and AutoTracking mounts.

7Ah  
POWER TANK

Product Code: 20153



17Ah  
POWER TANK

Product Code: 20154





## AZ-EQ5GT PRO SYNSCAN™

The AZ-EQ5GT is a dual purpose, fully functional computerised heavy-duty Go-To/Tracking astronomical mount in both Alt-Azimuth (AZ) and Equatorial (EQ) modes.

### MAIN FEATURES

- Payload Capacity: 15kg (EQ Mode) or 15kg+15kg (Alt-AZ Dual-Mode) • Two Telescopes can be Mounted in Parallel in AZ Mode • Freedom-Find Dual-Encoder Technology allows manual movement without losing positional information • Belt Driven
- Supplied with Pier Tripod & two 3.5kg Counterweights • Power Requirement: DC 11-16V 2A (Sky-Watcher 7Ah or 17Ah Power Tank Recommended)



## AZ-EQ6GT PRO SYNSCAN™

An exciting evolutionary development of the hugely successful EQ6 PRO. The AZ-EQ6GT is a fully functional computerised heavy-duty GoTo/Tracking astronomical mount in both Alt-Azimuth (AZ) and Equatorial (EQ) modes.

### MAIN FEATURES

- Payload Capacity: 25kg (EQ and AZ modes) • Two Telescopes can be Mounted in Parallel in AZ Mode • Freedom-Find™ Dual-Encoder Technology allows manual movement without losing positional information • Belt Driven
- Supplied with 2" Stainless Steel Tripod, Polarscope & two 5kg Counterweights • Power requirement: 12V DC 3A (Sky-Watcher 17Ah Power Tank recommended)

## CQ350 PRO SYNSCAN™

Payload capacity 35kg. Belt driven. Includes 2 x USB, 2 x power output and autoguider interfaces. Power requirement 12V DC 2A.

### OPTIONAL POLARSCOPE FOR CQ350 PRO

Product Code: 20131

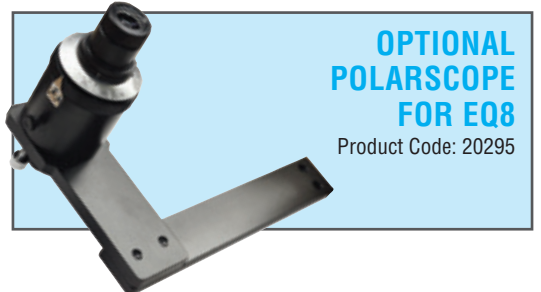


## EQ8 PRO SYNSCAN™

Observatory Class Mount available either complete with pier tripod or as the mount head only. Two 10kg counterweights and the Synscan™ handset are supplied with both options. Polarscope is optional.

### MAIN FEATURES

- Payload Capacity: 50kg • Freedom-Find™ Dual-Encoder Technology allows manual movement without losing positional information.
- Auto-Home Function • Permanent Periodic Error Correction (PPEC)
- Power Requirement: 11 to 16 Volts DC, 4A (Sky-Watcher 17Ah Power Tank recommended)

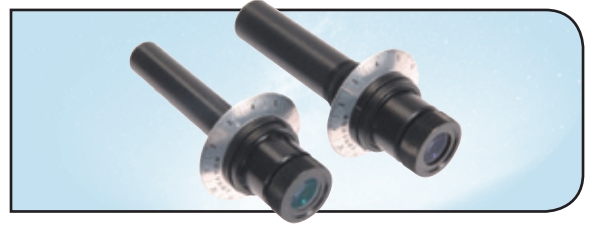


## HM5 POLAR ALIGNMENT SCOPES

Very useful accessory for EQ3-2 and EQ-5 mounts. It speeds up and refines the polar alignment procedure so the observer can spend more valuable time observing, rather than setting up. Usable in both N and S Hemispheres. They are also direct replacements for the Polar Alignment Scopes supplied with the HEQ5 and EQ6 mounts.

**FOR EQ3-2/HEQ5 EQUATORIAL MOUNTS** Product Code: 20116

**FOR EQ5/EQ6 EQUATORIAL MOUNTS** Product Code: 20117



## SYNSCAN™ GO-TO UPGRADE KITS

Available for easily upgrading the standard (non-PRO) equatorial mountings for computerised GO-TO capabilities. Kits comprise SynScan™ Flash Upgradeable GO-TO handset, 2 x Stepper Motors for DEC and R.A. Drives, Replacement Control Panel / Motor Board, Hand Control Cable, Cable Clamp and Hand Control Holder (12v D.C. Power Supply Required - not supplied).

**SynScan™ Upgrade Kit for Standard EQ3-2** Product Code: 20107

**SynScan™ Upgrade Kit for Standard EQ5** Product Code: 20108

**SynScan™ Upgrade Kit for Standard HEQ5** Product Code: 20887

**SynScan™ Upgrade Kit for Standard EQ6** Product Code: 20851

## SYNSCAN™ V5 COMPUTERISED HANDSET

The latest V5 handset now incorporates a USB connector port, adjacent to the RJ-45 hand controller cable port and RJ-12 serial cable port

Product Code: 20948

## PILLAR MOUNT SUPPORTS FOR EQ5/HEQ5 & EQ6 MOUNTINGS

These sturdy pillar supports can be used instead of the standard tripod supplied. Complete with wheels, which can be disengaged when mount is in use. Designed for use on a reasonably hard, level surface close to where the telescope is normally stored.

*(n.b. Picture features the 20888 pillar support)*

### PILLAR MOUNT SUPPORT FOR EQ5/HEQ5/AZ-EQ5GT

Product Code: 20888

### PILLAR MOUNT SUPPORT FOR EQ6/EQ6-R/AZ-EQ6GT

Product Code: 20889



## STAINLESS STEEL TRIPODS

**1.75" STAINLESS STEEL TRIPOD (3/8" tripod thread, upgrade for standard tripod supplied with AZ5, AZ PRONTO, AZ-GTi, & AZ-EQ AVANT mounts)**

Product Code: 20316

**1.75" STAINLESS STEEL TRIPOD (as supplied with EQ5/HEQ5)**

Product Code: 20798

**2" STAINLESS STEEL TRIPOD (as supplied with EQ6)**

Product Code: 20937



## EQ6 COUNTERWEIGHT SHAFT EXTENSION BAR

Extends the standard EQ6 counterweight shaft by 18cm

Product Code: 20858



## EXTENSION TUBES

Installed between the tripod and the mount head, these heavy-duty extension tubes raise the height of the mount by the values below creating a more comfortable viewing position when using a long refractor telescope.

### EQM-35/EQ5/HEQ5/AZ-EQ5 16" EXTENSION

Product Code: 20856

### EQ6/EQ6-R/AZ-EQ6 8" EXTENSION

Product Code: 20857

20856  
Extension Tube

### 3/8" EXTENSION TUBE

Constructed from cast aluminium. 21.5cm overall length. Base and top platform diameter 70mm. Female 3/8" thread on base. Male threaded 3/8" screw connector on top platform (top platform separable from main body). Compatible with Sky-Watcher tripods with 3/8" screw connector.

Product Code: 20313



## EQ6 SADDLE PLATES

**75mm SADDLE PLATE**

Product Code: 20250

**45mm/75mm DUAL-FIT SADDLE PLATE**

Product Code: 20290



## SKY-WATCHER COUNTERWEIGHTS

**1.9kg+3.4KG FOR EQ3-2**  
Product Code: 20551

**5.2kg FOR EQ5/HEQ5/EQ6**  
Product Code: 20950

**5.2kg FOR AZ-EQ6GT**  
Product Code: 20949

**10kg FOR EQ8**  
Product Code: 20294



## SKY-WATCHER BARLOW LENSES 1.25"

- A) x2 Sky-Watcher 1.25" Economy Barlow (Single Lens)  
B) x2 Sky-Watcher 1.25" Deluxe Barlow (Double Lens with T-Mount Thread)



## OVL PREMIUM x3 BARLOW LENSES 1.25"

- A) 3-Element 3x Barlow Product Code: 20286  
B) 4-Element 3x Barlow Product Code: 20285



## SKY-WATCHER 2" ED DELUXE BARLOW LENS

2" Super-Deluxe x2 ED Barlow (with 1.25" adaptor)

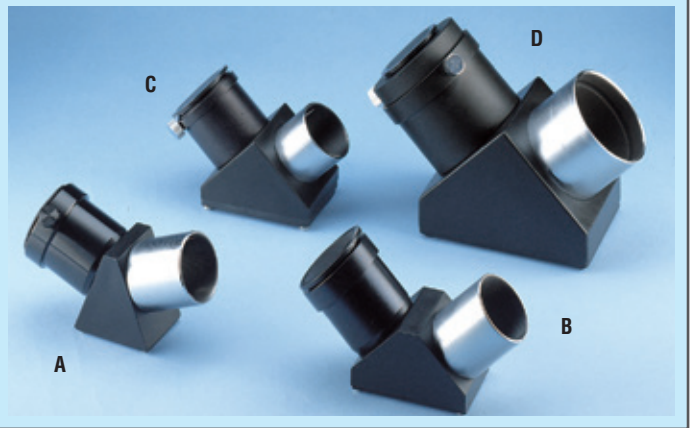


## OVL 2" ERECTING PRISM

CNC machined and black anodised barrels. 45 degree angled. Complete with 1.25" adaptor. Brass compression rings. Threaded for 2" filters. Fully Multi-Coated.

## SKY-WATCHER DIAGONALS

- A) 45° Erecting Prism (1.25"/31.7mm) Product Code: 20376  
B) 90° Erecting Prism (1.25"/31.7mm) Product Code: 20377  
C) 90° Star Diagonal (1.25"/31.7mm) Product Code: 20375  
D) 90° Star Diagonal (2"/50.8mm) with 1.25" Adaptor Product Code: 20570



## SKY-WATCHER 45°-90° VARI-ANGLE MIRROR DIAGONAL

This convenient mirror diagonal can easily be switched between either 45° or 90° viewing, providing comfortable viewing at all observational angles. Standard 1.25"/31.7mm format.

Product Code: 20169



## SKY-WATCHER DELUXE DI-ELECTRIC COATED STAR DIAGONALS

Available in either 1.25" or 2" sizes, the mirrors inside these diagonals have undergone a special high-reflectivity multi-coating process, allowing them to reflect 99% of the precious gathered starlight, providing exceptional brightness and contrast. (Standard diagonals typically reflect 90-95% of light).

- 1.25"/31.7mm Di-Electric Coated 90° Star Diagonal** Product Code: 20967  
**2"/50.8mm Di-Electric Coated 90° Star Diagonal with 1.25" Adaptor** Product Code: 20968



## SKY-WATCHER TUBE MOUNTING RINGS

These quality cast aluminium rings are available in the following internal diameters: 90mm, 102mm, 120mm, 140mm, 160mm, 182mm, 236mm, 285mm & 357mm. They are felt-lined and hinged for easy installation of the telescope. By loosening the thumbscrews, the telescope can be easily balanced and rotated.



TUBE MOUNTING RINGS (DIAMETER/PRODUCT CODE) W=White B=Black					
90mm (B)	20410	102mm (W)	20411	120mm (B)	20413
140mm (W)	20412	160mm (W)	20835	182mm (W)	20527
236mm (W)	20416	285mm (W)	20900	357mm (W)	20901

## SYNSCAN USB TO SERIAL (RS232) CABLE

Connects to the Synscan RS232 firmware update cable allowing connection directly to a PC's USB port. Simple Plug and Play. Length 1.5 metres. Fully compliant with USB 1.1. Supports RS232 interface. Data transfer rate over 250Kbps. OS Support: Windows XP/7/8/10.

1.25" Product Code: 20198  
2" Product Code: 20199



## OVL LIGHT POLLUTION FILTERS 1.25" & 2"

These contrast-enhancing anodised aluminium, optical glass filters are designed to block out the wavelengths of light emitted by mercury-vapour light and other common causes of light pollution, whilst providing higher transmission at critical hydrogen-alpha and hydrogen-beta lines than competing filters. Bright, light-polluted skies appear much darker, and the contrast between object and sky is improved significantly. This contrast enhancement effect is particularly apparent on nebulae. Views of galaxies and star clusters are also enhanced, but to a lesser degree. Works well in telescopes of all apertures but is highly recommended for use on smaller telescopes up to 114mm diameter, where conventional filters swallow up too much light.

## SKY-WATCHER MOON FILTER

Glare reducing filter. Screws into 1.25" threaded eyepieces

Product Code: 20405



## OVL 1.25" LUNAR/PLANETARY FILTER SET

Comprises 4 x high quality glass colour filters. Yellow, Red, Green & Moon/Neutral Density Filters included. These filters will fit most internally threaded eyepiece barrels of 1.25"/31.7mm format. Supplied in attractive foam-lined plastic screw top storage case.

Product Code: 20202



## OVL H-BETA FILTERS 1.25" & 2"

This high performance CCD filter transmits only the Hydrogen Beta emission line, and therefore is useful for greatly increasing the contrast of objects that glow in the corresponding region of the spectrum, for example the Horsehead, Cocoon and California nebulae. Available in 1.25" and 2" sizes. Recommended for capturing H-beta emitting objects using CCD photography under dark skies.

1.25" Product Code: 20204  
2" Product Code: 20205



1.25" Product Code: 20195  
2" Product Code: 20197



## OVL UHC (ULTRA HIGH CONTRAST) FILTERS 1.25" & 2"

The narrowband UHC filter, like the O-III filter, isolates the two doubly ionized oxygen lines (496 and 501nm) in addition to the hydrogen-beta line (486nm) emitted by planetary and most emission nebulae. This filter permits superb views of objects like the Orion, Lagoon, Swan and other extended nebulae. It performs well in smaller aperture instruments owing to its greater light transmission than the O-III, yet still suppresses light pollution well. The UHC filter is the best all-around dark-sky nebula filter.

1.25" Product Code: 20194  
2" Product Code: 20196



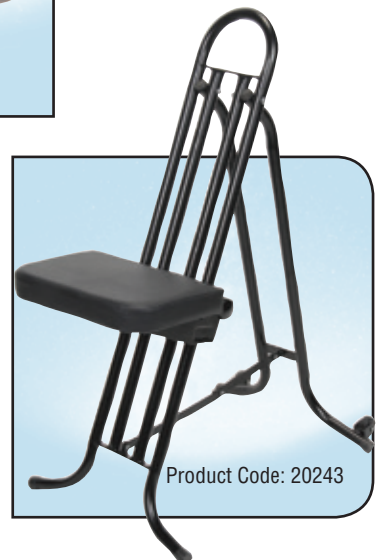
## OVL O-III NARROWBAND FILTERS 1.25" & 2"

Specially designed for the observation of gas and planetary nebulae. Isolates just the two doubly ionized oxygen lines (496 and 501nm) emitted by diffuse, planetary and extremely faint nebulae. O-III filters work ideally with larger aperture telescopes in the 200mm and larger range.

## SKY-WATCHER ANTI-TIP OBSERVING CHAIR

The deluxe observing chair from Sky-Watcher is lightweight and features a height-adjustable padded seat. To change the seating position you just lift the seat to raise it or lower it. No tools are needed, and adjustments are done in a matter of seconds. The observing chair replaces awkward stances and squats with simple comfort. It is a pleasure to use whether you observe with refractors, reflectors, Dobsonians or catadioptric telescopes. Perhaps the nicest feature is the no-tip foot design. Unlike other and substantially more expensive models on the market, the Sky-Watcher observing chair has been designed to retain its balance and stability at all seating heights. This is a great improvement over other models that have a tendency to tip easily.

Extended Dimensions: 95cm(H) x 46cm(W) x 65cm(D) Maximum advisable weight limit approx. 90kg.  
Folded Dimensions: 108cm(H) x 46cm(W) x 15cm(D) Adjustable Seat heights: 30-82 cm Weight: 6kg



Product Code: 20243



## OVL VARIABLE POLARISING FILTERS 1.25" & 2"

These high quality anodised aluminium, optical glass variable polarising filters reduce the amount of light entering your eyepiece. You can progressively dim the view when observing a bright object, such as the Moon or certain planets, to a level according to your needs, whilst increasing contrast, reducing glare and increasing the amount of detail that can be studied. The light transmission can be varied from 40% down to as little as 1%. The filter will not change the colour of the object being viewed and will prevent eye fatigue and loss of night vision. Each filter set consists of two polarizing filters, one which can be rotated in its cell to adjust the brightness. The filters can also be used as single elements for daytime terrestrial use, for reducing sunlight glare from lakes, oceans or window glass.



## OVL L-RGB CCD FILTER SET (1.25")

Designed for CCD astrophotography, the set includes Luminance-IR, Red, Green, and Blue dichroic CCD filters. The filters are resistant to humidity and scratching and set into a durable aluminium alloy threaded mounting ring. The red green and blue filters have been developed to closely match the natural colours of stars, planets and emission nebulae, whilst the luminance filter removes damaging haze and ultraviolet. The filters offer light transmission of nearly 100%. Please note the red, green and blue filters are not IR coated.

## OVL UV/IR CUT-OFF FILTER (1.25")

This UV/IR cut filter blocks UV and IR rays to maintain the colour temperature you want, eliminating false colour fringes around bright stars. Offers a 99.9% light transmission rate for bright and clear images. Suitable for visual observations and for CCD photography.



## SKY-WATCHER EYEPIECE, TORCH & FILTER SET

Comprises 7.5mm, 12.5mm, 17mm & 20mm Super Plossl Eyepieces, Four Threaded Light Filters (Amber, Blue, Neutral Grey & Moon Filter), Dual Beam LED Night Vision Torch, in lockable, foam-padded Aluminium Case. (1.25"/31.7mm Format)

## OVL 5-POSITION FILTER WHEEL

This handy, time-saving device is a must-have for astronomers, for both visual and photographic use. Up to five filters can be installed in the threaded, numbered compartments, and each can be selected for your eyepiece or camera by simply rotating the inner wheel to any of the five click-stop positions. One compartment can be left empty for unfiltered viewing. The filter wheel can be attached to your focuser either by the supplied 1.25" nosepiece adaptor or via a T-thread. Supplied with a 1.25" eyepiece adaptor, 1.25" focuser nosepiece, T-2 camera adaptor and locking ring. Please note: your focuser will require 20mm of inward focusing distance from the normal focus position to compensate for the thickness of the filter wheel.



## SKY-WATCHER SUPER-MA SERIES EYEPIECES

The modified achromat series of 1.25"/31.7mm eyepieces offer a good standard of performance in a very affordable package. Designed for telescopes with mid-range to long f/ratio, these oculars have features usually found only in more expensive designs. These Super-MA Eyepieces incorporate a fold-down rubber eye-shield, fully coated optics and outstanding field correction.

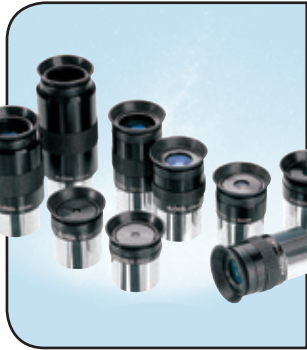
- Design: Modified Achromat, fully coated
- Focal Lengths: 25mm, 10mm & 3.6mm
- Eyepiece Barrels: 1.25"/31.7mm Format
- Apparent Field of View: 52° (10mm), 50° (25mm), 40° (3.6mm)

Product Code	Product Code	Product Code
3.6mm 20805	10mm 20802	25mm 20956



## SKY-WATCHER 10mm ERECTING EYEPIECE

Provides an upright, correctly orientated image for terrestrial observations. Suitable for use with Newtonian Reflector or Refractor Telescopes. Supplied with extension tube. (1.25"/31.7mm format) Product Code 20794



## SKY-WATCHER 'SP-SERIES' SUPER PLOSSL EYEPIECES

These standard 1.25"/31.7mm eyepieces set high performance standards for modern telescope oculars. The proven 4-element Plossl designs display edge-to-edge pinpoint imaging across their panoramic 52° fields. Utilisation of top quality optical glass, superior multi-layer coatings and edge-blackened elements deliver superb high contrast images. 'SP-Series' eyepieces minimise spherical aberration, distortion, astigmatism and off-axis colour, whilst their oversized optical elements afford the observer luxurious eye relief. Stray light is eliminated by the fold back rubber eyecups, standard with every 'SP-Series' eyepiece, and all but the lightest three models feature the security of rubber grips. Whether observing fine planetary detail or deep space wonder, whether your telescope is a Newtonian, Refractor or Catadioptric, let the high performance imaging of 'SP-Series' eyepieces unlock its potential !!

Product Code	Product Code	Product Code
40mm 20366	20mm 20369	10mm 20372
32mm 20367	17mm 20370	7.5mm 20373
25mm 20368	12.5mm 20371	6.3mm 20374

## SKY-WATCHER PLANETARY 58° UWA 1.25" EYEPIECES

The new Sky-Watcher Planetary eyepieces are ideal when high magnification is required for the observation of fine planetary and lunar detail. Based on a modified Plossl design, these fully multi-coated eyepieces are constructed with five lens elements, and are characterised by their wide 58 degree field of view, low distortion, high contrast performance and comfortable operation. Each model features fold down/screw-off rubber eyecups and a generous 16mm eye relief, making them suitable for spectacle wearers. Each model features the security of rubber grips and the eyepiece barrels are threaded for standard 1.25" filters. Available in 2.5mm, 4mm, 5mm, 6mm, 7mm and 9mm focal lengths.

Product Code	Product Code
2.5mm 20273	6mm 20276
4mm 20274	7mm 20277
5mm 20275	9mm 20278



## SKY-WATCHER ULTRAWIDE EYEPIECES

These Sky-Watcher Ultra-Wide Angle, Multi-Coated, Long Eye Relief eyepieces offer a generous 66° apparent field of view, allowing more sky objects to be viewed at one time. They provide sharp images right across the field. Rubber eyepieces are included for viewing comfort and to exclude extraneous light. Eye Relief: 20mm (18mm Eye Relief), 15mm (13mm Eye Relief), 9mm (15mm Eye Relief), 6mm (14.8mm Eye Relief).



Product Code	Product Code	Product Code	Product Code
6mm 20615	9mm 20616	15mm 20617	20mm 20618
(all Standard 1.25"/31.7mm format)			

## OVL EXTRAFLAT™ 1.25" EYEPIECES

The exotic 1.25" ExtraFlat™ 5 or 6-element eyepiece design packs premium features and high-end performance into a surprisingly affordable package. The optical designer has succeeded to remove peripheral field curvature, so now you can enjoy flat, virtually distortion-free images from the centre-to-edge of the field. Optical performance is impressive, with excellent sharpness, contrast and colour rendition. All models feature oversized eye-lens elements, wide fields of view, long eye-relief for spectacle wearers, and soft twist-up rubber eyecups for comfortable viewing. All models are fully broadband multi-coated, feature blackened lens edges and are parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters. Available in focal lengths of 16mm, 19mm & 27mm, with apparent fields of view of 60°, 65° & 53° and eye relief of 17mm, 19mm & 23mm respectively.

- ExtraFlat™ 27mm Product Code: 20180
- ExtraFlat™ 19mm Product Code: 20181
- ExtraFlat™ 16mm Product Code: 20182



## OVL NIRVANA-ES™

### UWA-82° 4mm/7mm/16mm ULTRAWIDE EYEPIECES (1.25")

These top quality ultra-wide angle 1.25" eyepieces offer an incredible jaw-dropping viewing experience to rival some of the leading premium eyepieces on the market, but at an extremely competitive price. The huge 82° apparent field of view, superb field-edge correction and excellent contrast combine to provide a wonderfully immersive and memorable observational adventure. Work superbly in telescopes of all focal lengths. All models are constructed with 7 lens elements in 4 separate groups. These exotic eyepiece models feature large eye-lens elements and soft rubber eyecups for comfortable viewing. All models are fully broadband multi-coated, feature blackened lens edges, internal baffling and are parfocal. 12mm eye relief on all models. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters.

- Nirvana-ES™ 4mm UWA-82° Ultrawide Product Code: 20972
- Nirvana-ES™ 7mm UWA-82° Ultrawide Product Code: 20973
- Nirvana-ES™ 16mm UWA-82° Ultrawide Product Code: 20974





## OVL HYPERFLEX-7E1 7.2-21.5mm ZOOM (1.25")

A high-performance zoom eyepiece of top quality construction, providing a flat field of view and crisp, clear distortion-free images. Features a continuous focal length of 7.2mm to 21.5mm and a corresponding apparent field of view of 60°-40°. For convenience, focal length positions of 7.2, 10, 13.5 & 21.5mm are engraved on the eyepiece barrel. The zoom is super-smooth to operate and a pleasure to use. Eye relief 15mm. Constructed with 7 lens elements in 4 separate groups. This exotic eyepiece model features a generous sized eye-lens element and soft twist-up rubber eyecup for comfortable viewing. Fully broadband multi-coated, features blackened lens edges, internal baffling and is parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters.

Product Code: 20239



## OVL HYPERFLEX-7E2 9-27mm ZOOM (1.25")

A high-performance zoom eyepiece of top quality construction, providing a flat field of view and crisp, clear distortion-free images. Features a continuous focal length of 9mm to 27mm and a corresponding apparent field of view of 60°-40°. For convenience, reference focal length positions are engraved on the eyepiece barrel. The zoom is super-smooth to operate and a pleasure to use. Eye relief 18mm. Constructed with 7 lens elements in 4 separate groups. This exotic eyepiece model features a generous sized eye-lens element and soft twist-up rubber eyecup for comfortable viewing. Fully broadband multi-coated, features blackened lens edges, internal baffling and is parfocal. Beautifully finished in high-gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 1.25" filters. Product Code: 20266



## SKY-WATCHER 7-21mm & 8-24mm ZOOM (1.25")

These Sky-Watcher zoom eyepiece models offer exceptional value, providing a range of popular focal lengths in one unit.

**7-21mm (left)**  
**8-24mm (right)**

Product Code: 20586  
Product Code: 20149



*"This eyepiece did a great job on a wide range of subjects"*  
BBC SKY AT NIGHT MAGAZINE (8-24mm MODEL)

## SKY-WATCHER SKY PANORAMA (1.25" & 2") ULTRA WIDE ANGLE 82° EYEPIECES

The Sky Panorama 7-element ultra wide angle eyepieces offer incredible performance and features in their class. The wide 82° field of view provides an amazing immersive viewing experience over a very flat, well corrected and virtually distortion-free field. Features a built-in, soft rubber eyecup which extends by rotating an external collar. The eye relief is comfortable on all models and suitable for spectacle wearers. All models are fully broadband multi-coated for high contrast and maximum light transmission. Threaded to accept standard filters. Available in focal lengths 7mm (1.25"), 15mm (1.25") and 23mm (2")

**Sky Panorama 7mm** Product Code: 20270  
**Sky Panorama 15mm** Product Code: 20271  
**Sky Panorama 23mm** Product Code: 20272



## OVL AERO™ 2" ED EYEPIECES

The 2" Aero SWA eyepieces feature a 6-element construction in four groups. Exotic ED glass is employed in the design to significantly reduce false colour. These eyepieces all feature impressively wide 68° fields of view, with virtually distortion-free images.

Multi-coating is applied to all air-to-glass surfaces to increase light transmission and image contrast. All models feature edge-blackened lens edges and are parfocal. The eyepiece barrels are threaded to accept standard 2" filters. Twist-up rubber eyecups and generous eye relief for spectacle wearers. Finished in high-gloss anodised aluminium with knurled rubber grips. Available in focal lengths of 30mm, 35mm & 40mm, with eye relief of 16.7mm, 17.5mm & 20mm respectively.

**Aero™ ED 30mm** Product Code: 20179  
**Aero™ ED 35mm** Product Code: 20178  
**Aero™ ED 40mm** Product Code: 20177



## OVL PANAVIEW™ 2" EYEPIECES

The 2" PanaView™ 5-element eyepieces, with their impressive high-contrast, panoramic views, are extremely popular for enthusiasts of low power, deep-sky observing. These exotic eyepiece models feature giant, oversized eye-lens elements, wide 70° fields of view, long eye-relief for spectacle wearers, and soft twist-up rubber eyecups for comfortable viewing. All models are fully broadband multi coated, feature blackened lens edges and are parfocal. Beautifully finished in high gloss anodised aluminium with knurled rubber grips. Threaded to accept standard 2" filters. Available in focal lengths of 26mm, 32mm & 38mm, with apparent fields of view of 70° and eye relief of 20mm, 24mm & 28mm respectively.

**26mm** Product Code: 20185 **38mm** Product Code: 20183  
**32mm** Product Code: 20184



## SKY-WATCHER SWA-70 (1.25"/2") DUAL FIT) 70° SUPER WIDE ANGLE 1.25"/2" EYEPIECES

These stylish new soft rubber-clad, 70° super wide angle eyepieces are each constructed from 8 lens elements and are fully multi-coated throughout. A cleverly designed dual-fit barrel enables them to be used in both 1.25" and 2" focusers. Eye relief is a generous 20.6mm. They feature oversized eye lenselements and soft twist-up rubber eyecups for comfortable viewing. Available in 3.5mm, 5mm, 8mm, 13mm & 17mm focal lengths. Threaded for 1.25" filters.

**SWA-70 (Dual-Fit) 3.5mm** Product Code: 20958  
**SWA-70 (Dual-Fit) 5mm** Product Code: 20959  
**SWA-70 (Dual-Fit) 8mm** Product Code: 20960

**SWA-70 (Dual-Fit) 13mm** Product Code: 20961  
**SWA-70 (Dual-Fit) 17mm** Product Code: 20962



## SKY-WATCHER SWA-70 (2") 70° 32mm SUPER WIDE ANGLE 2" EYEPIECE

Soft rubber-clad, 70° super wide angle 2"/50.8mm eyepiece constructed from 8 lens elements and fully multi-coated throughout. Eye relief is a generous 20.6mm. Features oversized eye lens element and soft twist-up rubber eyecup for comfortable viewing. Threaded for 2" filters. Product Code: 20965



## OVL MYRIAD™ MWA (100° & 110°) EYEPIECES

For the ultimate immersive, wide angle experience, the exotic Myriad eyepieces have staggering apparent fields of 100 or 110 degrees! Myriad 3.5mm and 5mm models are constructed with 8 lens elements in six groups, and the 9mm and 20mm models have 9 lens elements in six groups. All models are fully broadband multi-coated with blackened edges for maximum light transmission and contrast. Myriad 3.5mm, 5mm and 9mm models will fit both 1.25 inch and 2 inch focusers (2 inch sleeve is removable) whilst the Myriad 20mm model is 2" only. Eye relief is 15mm on all models except the Myriad 9mm which has 13mm eye relief. Threaded for standard 1.25 inch and 2 inch filters (3.5mm, 5mm & 9mm models) whilst the Myriad 20mm accepts just 2" filters. Soft twist-up rubber eyecups. Finished in high gloss anodised aluminium.

**3.5mm MWA-110° (1.25"/2")** Product Code: 20125  
**5mm MWA-110° (1.25"/2")** Product Code: 20126  
**9mm MWA-100° (1.25"/2")** Product Code: 20127  
**20mm MWA-100° (2")** Product Code: 20129



## OVL FIELD FLATTENER (WITH T-RING ADAPTOR)

Superb quality, non-focal reducing Field Flattener optimised for DSLR imaging on refractor telescopes with focal ratios of between f/5.5 to f/6.0. Will also provide much improved results on refractors with focal lengths narrowly outside this optimised f/range. Integral T-Ring adaptor thread. CNC machined body with gloss black anodised finish.

Product Code: 20225



Product Code: 20281

## OVL TWIST LOCK ADAPTOR (2" TO 1.25")

The Twist Lock Adaptor is an innovative 2"-1.25" low profile helical self-centering eyepiece adaptor, of metal construction, threaded to accept standard 2" filters. Just twist the upper knurled locking ring and your 1.25" eyepiece, camera nosepiece, or laser collimator will be centered

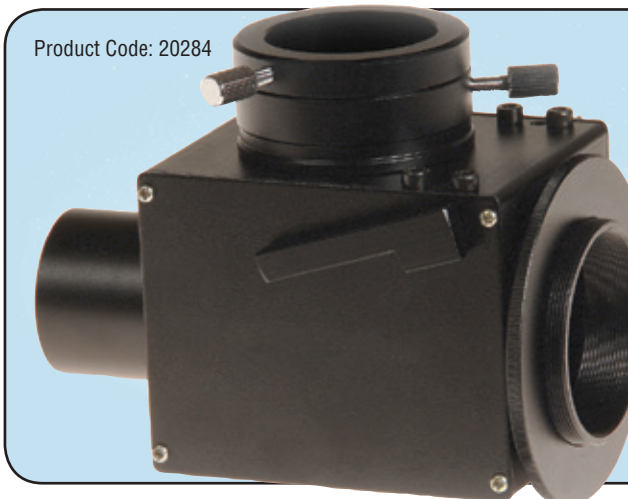
precisely in your 2" focuser, and securely gripped by a polypropylene compression ring, which will not scratch or mark your equipment. And wait, there's more....Unscrew the knurled locking ring to expose a male T-thread on the lower black barrel, which conveniently functions as a 2" prime focus (2" to T thread) adaptor by itself. So you're actually getting two adaptors for the price of one!

## OVL OFF-AXIS GUIDER

Designed for use with DSLR and CCD cameras, this low profile Off-Axis guider is a convenient alternative to using a separate conventional guide scope for astrophotography, offering several advantages:

- More precise tracking as mechanical flexure and image shift are eliminated from the system. The main camera and guiding camera will always move accurately together.
- The overall system is much lighter and more compact as a separate guide scope is not needed.
- Brighter, higher resolution images of the guide star on the guiding camera, as you are viewing through the main telescope. Easier to notice and correct tracking errors. Supplied with 2" to M48, and M42 to 2" adaptors.

Product Code: 20284



## SKY-WATCHER CANON/NIKON M48x0.75 ADAPTORS

These Sky-Watcher adaptors are designed for attaching Canon or Nikon DSLR cameras to either the Sky-Watcher Focal Reducer/Field Flatteners or 2" Coma Corrector.

**CANON M48x0.75 ADAPTOR**  
Product Code: 20237

**NIKON M48x0.75 ADAPTOR**  
Product Code: 20238



## OVL CANON EOS/NIKON T-RING ADAPTORS

Designed for attaching Canon EOS or Nikon DSLR cameras to M42x0.75 T-mount threads.

**CANON EOS T-RING ADAPTOR**  
Product Code: 20282

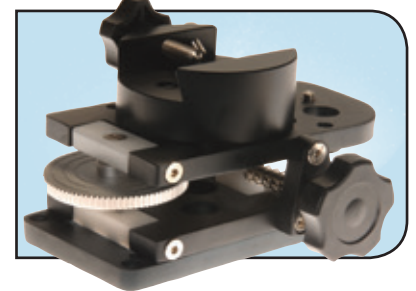
**NIKON T-RING ADAPTOR**  
Product Code: 20283



## SKY-WATCHER GUIDESCOPE MOUNT

Features full alt-azimuth control for quick and precise alignment of guidescope with main telescope. Standard Sky-Watcher 45mm dovetail saddle plate. Attaches to Sky-Watcher tube ring via camera mounting bracket.

Product Code: 20244



Product Code: 20280



## OVL FLIP MIRROR IMAGING DIAGONAL

Designed for convenient CCD imaging. The device has a 1.25" nosepiece, threaded for standard filters on one end, which is inserted into the telescope's focuser and an M42x0.75 T-mount thread on the other end to connect a suitable CCD camera. A 1.25" helical focusing eyepiece tube is provided for visual observations. In visual mode the internal lever-operated mirror is angled at 45° to channel the light path to the eyepiece in order to easily focus and frame the image. In imaging mode the mirror is taken out of the light path, to direct the light path to the camera. Please note: your focuser will require 80mm of additional inward focusing distance from the normal focus position to compensate for the length of the unit. Product Code: 20284

**Smooth-Bore Adaptor for Cameras with 1.25" Nosepieces (Product Code: 20287)**

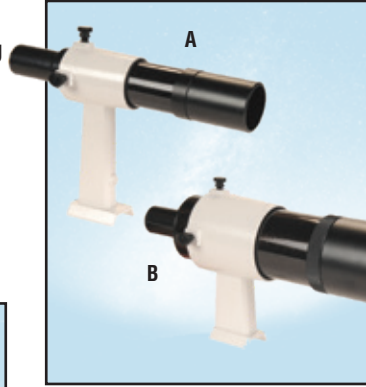


Product Code: 20743



## RED DOT FINDER

The Red Dot Finder makes setting up the telescope a snap. After proper alignment, the Red Dot Finder superimposes a small red dot on the sky, where the telescope is pointed. It is an ideal companion to wide field short-tube refractors.



## SKY-WATCHER FINDERSCOPIES

- A) 6x30 Finderscope complete with Bracket  
Product Code: 20479
- B) 9x50 Finderscope complete with Bracket  
Product Code: 20530

**SHOE FOR SKY-WATCHER FINDERSCOPE BRACKETS**  
Product Code: 20820

## 6x30 RIGHT-ANGLED FINDERSCOPE

Provides an upright image with reversed left/right orientation. Supplied with finderscope bracket. Matches the image seen through Refractor or Maksutov-Cassegrain telescopes with star diagonal. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.

**SHOE FOR SKY-WATCHER FINDERSCOPE BRACKETS**  
Product Code: 20820



Product Code: 20931

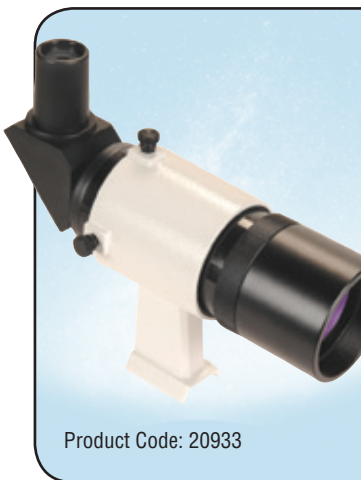
## 6x30 RIGHT-ANGLED ERECT-IMAGE FINDERSCOPE

Provides an upright image with completely corrected left/right image orientation. Ideal for fast, intuitive location of target objects. Supplied with finderscope bracket. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.

**SHOE FOR SKY-WATCHER FINDERSCOPE BRACKETS**  
Product Code: 20820



Product Code: 20932



Product Code: 20933

## 9x50 RIGHT-ANGLED FINDERSCOPE

Provides an upright image with reversed left/right orientation. Supplied with finderscope bracket. Matches the image seen through Refractor or Maksutov-Cassegrain telescopes with star diagonal. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.

**SHOE FOR SKY-WATCHER FINDERSCOPE BRACKETS**  
Product Code: 20820



Product Code: 20934

## 9x50 RIGHT-ANGLED ERECT-IMAGE FINDERSCOPE

Provides an upright image with completely corrected left/right image orientation. Ideal for fast, intuitive location of target objects. Supplied with finderscope bracket. Provides exceptionally comfortable and convenient operation compared to a traditional straight-through viewing finder.

**SHOE FOR SKY-WATCHER FINDERSCOPE BRACKETS**  
Product Code: 20820



## ILLUMINATED FINDERSCOPIES

Battery operated red LED illuminates the crosshair reticule. Finderscope bracket included.

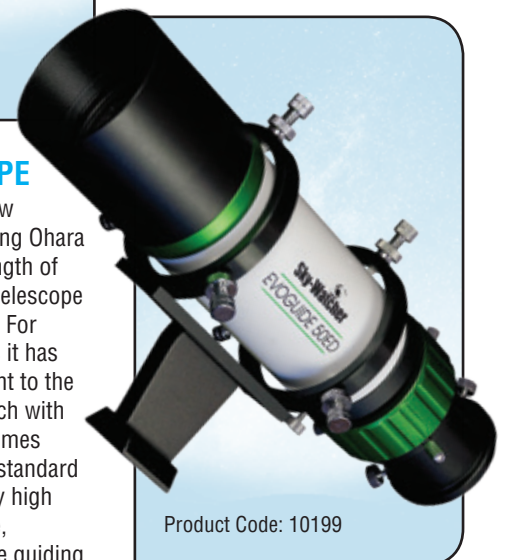


6x30 Product Code: 20113

9x50 Product Code: 20114

## EVOGUIDE-50ED 50mm GUIDESCOPE

Sky-Watcher's EVOGUIDE-50ED is the ultimate new high quality 50 mm doublet ED Guidescope, utilising Ohara S-FPL53 glass for the ED element. With a focal length of 242 mm it has a very fast focal ratio of f/4.8. The telescope is equipped with a fine and precise helical focuser. For connecting your autoguider, cameras or eyepieces it has a T2 thread and 1.25" socket. For exact adjustment to the main telescope, collimation rings are provided, each with 3 nylon-tipped screws. The guidescope bracket comes with a Sky-Watcher / Vixen style mini dovetail for standard finder shoes. The EVOGUIDE-50ED is a small, very high quality telescope which is perfect as a Guidescope, providing pinpoint sharp stars for easy and precise guiding.



Product Code: 10199

## SKY-WATCHER SYNSCAN STARWAND™

Consists of the StarWand™ Pointing Device and a unique StarWand™ Wi-Fi Adaptor which plugs into a Synscan™ handset. After alignment, the StarWand™, using motion sensor technology and a 1mW laser, can be aimed anywhere in the night sky to command a Synscan™ AZ, EQ or AZ-EQ mount, with a Synscan™ handset fitted, to automatically slew to that position. From that approximate point, the user will then have to make slewing adjustments using the handset controls to finally locate the desired object, which is very useful educationally, as well as rewarding, as the user has to navigate to the final object. Will command more than one mount simultaneously with additional unique StarWand™ Wi-Fi adaptors. Works with Synscan™ V3, V4 and V5 handsets (V3/V4 firmware updates may be required). Requires 1 x 18650 rechargeable lithium-ion battery (not supplied).



Product Code: 20990

## OVL BINOVIEWER (WITH x2 BARLOW LENS)

Designed to fit into a standard 1.25" eyepiece tube. This binocular attachment features high quality BaK-4 prisms for clearer, sharper images. An excellent accessory, which helps to reduce eyestrain. A x2 specially-designed Barlow Lens is included which effectively doubles the magnification of eyepieces used. Special self-centring eyepiece holders with brass compression rings. Supplied in Aluminium Case.



Product Code: 50989

## SKY-WATCHER 7Ah RECHARGEABLE POWER TANK

Multi-purpose Rechargeable Power Supply recommended for use with all Sky-Watcher SynScan™, SynTrek™ and SupaTrak™ mountings.

- Built-in 12V 7Ah Sealed Lead Acid Rechargeable Battery with Diagnostic LED Display, Protective Fuse.
- Built-in multi-angle, multi LED Spotlight
- 2 x DC 12V output car jack
- 2 x USB output sockets (5V, 1.5A)
- Built-in flashlight with ON/OFF/FLASH function
- Built-in Circuit Breaker for safety operation
- DC cord with car plug is included
- Light diffuser for flashlight is included
- Mains charger, with UK & Euro adaptor plugs



Product Code: 20153

## SKY-WATCHER 17Ah RECHARGEABLE POWER TANK

Multi-function rechargeable power supply recommended for use with all Sky-Watcher SynScan™, SynTrek™ and SupaTrak™ mountings.

- Built-in 12V 17Ah Sealed Lead-Acid rechargeable battery
- Radio - AM/FM/SIREN
- Diagnostics LED shows Battery Status
- Built-in multi-angle, multi LED Spotlight
- Built-in Circuit Breaker and fuse to Ensure Safe Operation
- 2 x USB output sockets (5V, 1.5A)
- Cord Storage Compartment
- Built-in Spotlight/Flashlight
- Detachable flashlight with On/Off/Flash
- DC Cord with car plug is included
- Mains charger, with UK & Euro adaptor plugs



Product Code: 20154

## SKY-WATCHER CHESHIRE COLLIMATING EYEPIECE

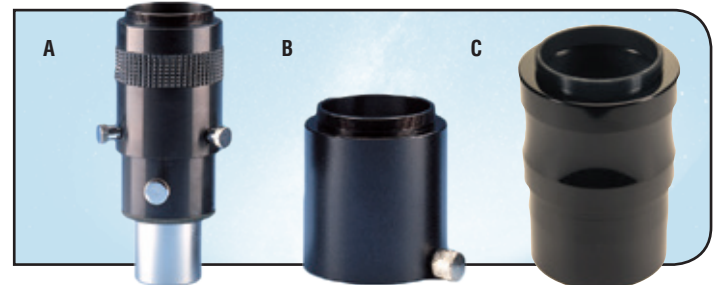
Designed to assist with the accurate collimation of a Newtonian reflector telescope.



Product Code: 20930

## OVL CAMERA ADAPTORS

- |   |  |   |
|---|--|---|
| <b>A) Tele-Camera Adaptor (Eyepiece Projection)</b><br>Prod.Code: 20512 | <b>B) Universal Camera Adaptor (Eyepiece Projection)</b><br>Prod.Code: 20356 | <b>C) 2" T-Mount Camera Adaptor</b><br>Prod.Code: 20226 |
|---|--|---|



## SKY-WATCHER DUAL LED FLASHLIGHT

- Night vision protecting red light for map reading and telescope operation
- Instant switch between Red and White light (two pairs of LED's)
- Adjustable Brightness



Product Code: 20741

## OVL 1mW LASER COLLIMATOR

The 1.25" laser collimator, with 7 adjustable brightness settings, comes complete with a removable 2" adaptor, for use in all sizes of focuser. Designed for the accurate collimation of Newtonian Reflectors, Dobsonians and Refractors.



Product Code: 20119

## SKY-WATCHER 12.5mm ILLUMINATED PLOSSL EYEPIECE (1.25")

Red LED illuminates the crosshair reticule. Product Code: 20115





## SKY-WATCHER AUTO-FOCUSER

Hands-free D.C. focusing device, for accurate focusing, with the minimum of vibration. Dual speed push-button operation (fast & slow). Can be used with the following telescopes, providing focus wheel is of removable type.

**EVOSTAR MODELS:**  
90/102/120/150

**STARTRAVEL MODELS:**  
80/102/120/150

Product Code: 20929



## SKY-WATCHER 2" COMA CORRECTOR FOR NEWTONIAN REFLECTORS

Optimised for all Sky-Watcher fast-ratio f/4 & f/5 Newtonian Reflectors & Dobsonians, with 2" focuser. Delivers stunning wide-field views with pinpoint stars to the edge of the field. Magnification remains unaltered. Supplied complete with necessary adaptors for visual use. For imaging use with a DSLR camera, a suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available (Product Codes: 20237 & 20238)

**COMA CORRECTOR (2")** Product Code: 20233



## SKY-WATCHER F/4 APLANATIC SUPER COMA CORRECTOR

Optimised for Sky-Watcher superfast f/4 Quattro imaging Newtonians, delivering stunning wide-field views with pinpoint stars to the edge of the flat field. Magnification remains unaltered. Features a four-element design with one element made from FPL51 ED glass. Requires 55mm back focus. Image height 28mm. Outside diameter 50.8mm. A suitable M48x0.75 adaptor is required to match your camera. Sky-Watcher manufactured Canon and Nikon M48x0.75 adaptors are available (Product Codes: 20237 & 20238)



Product Code 20231

## SKY-WATCHER DUAL-SPEED 2" CRAYFORD FOCUSER FOR EXPLORER NEWTONIANS

Designed to retro-fit to Explorer 150/200/250/300P models supplied originally with a 2" single-speed focuser. Gear ratio 10:1 (eyepiece not included).

Product Code: 20241



## SKY-WATCHER 0.85X FOCAL REDUCER/CORRECTOR FOR EVOSTAR 72/80/100/120/150ED DS-PRO

Designed for Astro-Imagers, each model is optimised for the corresponding model in the Evostar-ED DS PRO series. They effectively reduce the telescope's focal length by a factor of 0.85x and provide much improved field-edge correction. Use in conjunction with Sky-Watcher's M48 Canon or Nikon adaptor rings (Product Codes 20237 & 20238)

**0.85x Focal Reducer/Corrector for Evostar-72ED DS-PRO**  
**0.85x Focal Reducer/Corrector for Evostar-80ED DS-PRO**  
**0.85x Focal Reducer/Corrector for Evostar-100ED DS-PRO**  
**0.85x Focal Reducer/Corrector for Evostar-120ED DS-PRO**  
**0.85x Focal Reducer/Corrector for Evostar-150ED DS-PRO**

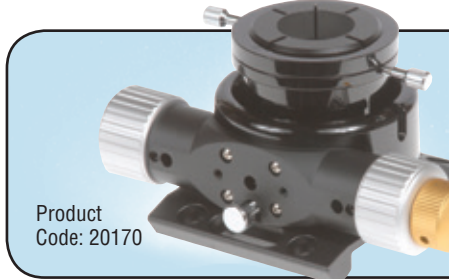


Product Code: 20232  
Product Code: 20236  
Product Code: 20235  
Product Code: 20234  
Product Code: 20321

## SKY-WATCHER GPS MOUSE

A plug-in accessory for the V3/V4/V5 handsets that uses global positioning satellite technology to automatically locate and input the users position (longitude & latitude) to the handset.

Product Code: 20957



Product Code: 20170

## OVL DUAL-SPEED 2" LOW PROFILE CRAYFORD FOCUSER FOR NEWTONIAN REFLECTORS

A Low Profile CNC machined 10:1 dual-speed focuser designed for Newtonian Reflector telescopes of 9" to 15" aperture. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. 24mm indexed Drawtube.

## OVL DUAL-SPEED 2" CRAYFORD FOCUSER FOR SKY-WATCHER REFRACTORS

A high quality CNC Machined 10:1 dual-speed Crayford focuser designed as a direct replacement/upgrade for the rack & pinion focuser supplied with the Sky-Watcher Evostar-102/120/150, Startravel-102/120/150 and Evostar-80ED/100ED/120ED Refractors. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. Indexed Drawtube.



Product Code: 20171

## OVL DUAL-SPEED 2" CRAYFORD FOCUSER FOR SCT TELESCOPES

A high quality CNC machined 10:1 dual-speed focuser designed as an upgrade to Schmidt-Cassegrain Telescopes. Accepts either 1.25" or 2" eyepieces. Provides an exceptionally smooth focusing operation with the utmost precision, with the aid of its micro-focusing facility. Indexed Drawtube.



Product Code: 20172

## FINE BRASS™ TRADITIONAL SOLID BRASS TELESCOPES

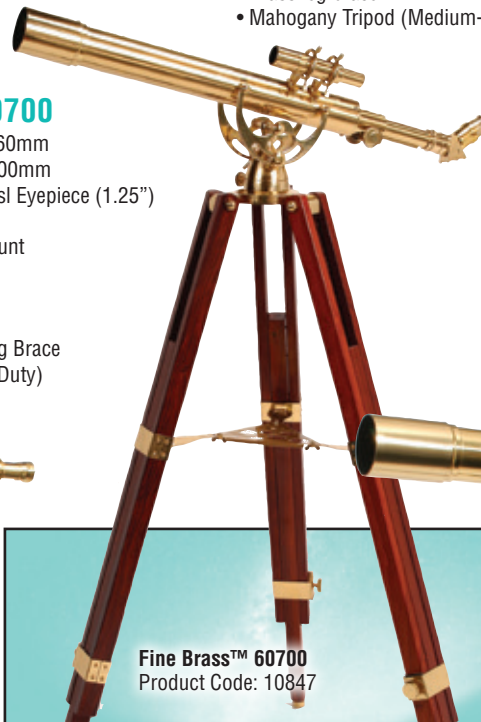
Designed to grace the balcony, library, conservatory or drawing room of a fine house. These beautifully crafted, hand-polished, solid brass telescopes have been manufactured to reflect the workmanship and materials of a more elegant bygone age. The magnificent, highly polished brass is complemented by tripods made from finest quality, solid mahogany wood. All feature high quality, fully coated optics making them highly functional products. All models provide erect images, so can be used for terrestrial viewing as well as for basic astronomical observations.



### FINE BRASS™ 2060

- Objective Lens Diameter: 60mm
- Magnification 20x-60x Zoom
- Twist-Focus/Zoom controls
- Brass Alt-Azimuth Arc Mount
- Brass Chain Leg-Brace
- Mahogany Tripod (Medium duty)

Fine Brass™ 2060  
Product Code: 10829



### FINE BRASS™ 60700

- Objective Lens Diameter: 60mm
- Telescope Focal Length: 700mm
- Supplied with 25mm Plossl Eyepiece (1.25")
- Magnification 28x
- Brass Alt-Azimuth Arc Mount
- Rack & Pinion Focusing
- 6x30 Finderscope
- 45° Erecting Prism
- Brass Accessory Tray / Leg Brace
- Mahogany Tripod (Heavy-Duty)

Fine Brass™ 60700  
Product Code: 10847



### FINE BRASS™ 6040

- Objective Lens Diameter: 60mm
- 40" Long Telescope Tube
- Magnification 28x
- Twist-Focus Control
- Brass Alt-Azimuth Arc Mount
- Brass leg brace
- Mahogany Tripod (Medium-Duty)

Fine Brass™ 6040  
Product Code: 10830



### FINE BRASS™ 8040

- Objective Lens Diameter: 80mm
- 40" Long Telescope Tube
- Magnification 28x
- Twist-Focus Control
- Red Copper Alt-Azimuth Arc Mount and Focuser
- Brass Leg Brace
- Mahogany Tripod (Heavy-duty)

Fine Brass™ 8040  
Product Code: 10832



### FINE BRASS™ 80900

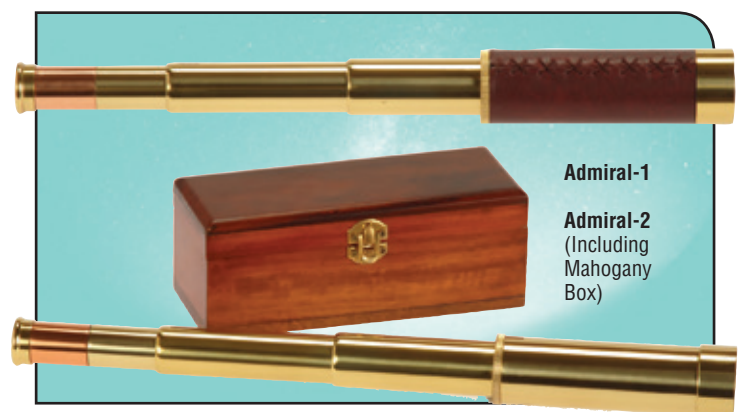
- Objective Lens Diameter: 80mm
- Telescope Focal Length: 900mm
- Supplied with 25mm Plossl Eyepiece (1.25")
- Magnification 36x
- Brass Alt-Azimuth Arc Mount
- Rack & Pinion Focusing
- 6x30 Finderscope
- 45° Erecting Prism
- Brass Accessory Tray / Leg Brace
- Mahogany Tripod (Heavy-Duty)

Fine Brass™ 80900  
Product Code: 10848

## FINE BRASS™ ADMIRAL 10-30x30 ZOOM DRAW TELESCOPES

These traditional spyglasses would not look out of place in the hands of Nelson himself! Both models have four extendable telescopic sections and magnify a powerful 10x-30x. The zoom is operated by twisting a control ring made of contrasting copper. The Brass/Leatherette model is supplied with a soft zip-up case, whilst the Full Brass model is supplied with a very attractive solid Mahogany felt-lined presentation/storage box.

Model	Admiral-1	Admiral-2
	Brass/Leatherette	Full Brass + Box
Specification	10-30x30	10-30x30
Magnification	10x-30x	10x-30x
Object Lens Diameter	30mm	30mm
Length	332mm	332mm
Weight	228g	259g
Product Code	10898	10897



Admiral-1

Admiral-2  
(Including Mahogany Box)





## MONOCULARS RAPIDE COMPACT

These monoculars feature quality BK-7 prisms and fully coated optics throughout, with a fully multi-coated objective lens. Very good close focus performance (10x25 model from 1.2m). Compact, lightweight and easy to use. Rubber armoured with knurled grips. Twist-up eyecup. Eye relief 13mm (8x25) and 14mm (10x25) Supplied with wrist cord & soft case with belt loop.

Model	Rapide Compact	
Specification	8x25	10x25
Magnification	8x	10x
Object Lens Diameter	25mm	25mm
Field of View	6.7°	5.2°
Actual Field of View	114m@1000m	91m@1000m
Nearest Focus Distance	3m	1.2m
Weight	122g	122g
Product Code	30921	30922



## RANGER 7x32 CLOSE-FOCUS

A high quality monocular featuring BaK-4 prisms and multi coated objective lens. Ideal for general nature studies as well as for extreme close-up work. The macro performance allows it to focus down to as near as 30cm, allowing it also to be used for the examination of butterflies, insects and more! Features twist-up rubber eyecups & fitted with tripod bush. Supplied with Neck Cord and Case.

Colour/Material: Black Rubber

Model	Ranger
Specification	7x32
Magnification	7x
Object Lens Diameter	32mm
Field of View	7.5°
Near Focus	30cm
Length	128mm
Weight	214g
Product Code	30976



## THEATRE/OPERA GLASSES SYMPHONY

For theatre-goers, a pair of these elegant opera glasses are indispensable. Available in a choice of three styles. The Pearl/Gold and Champagne/Silver have a centre-focus control, whilst the Black/Gold model is focus-free and has the addition of a built-in red LED illuminator, for the discreet illumination of your programme, handbag etc. Supplied in pouch style case.



Model	Symphony		
Style/Colour	Pearl	Champagne	Black
Specification	3x25	3x25	3x25
Magnification	3x	3x	3x
Object Lens Diameter	25mm	25mm	25mm
Length	65mm	65mm	60mm
Weight	161g	155g	134g
Product Code	30693	30694	30695



## COMPACT PORRO PRISM BINOCULARS SPRITE-IV

One of the smallest and most convenient glasses you will ever come across. Superb for theatre or stadium use. Excellent optical performance despite its small dimensions. Features half rubber covering. Excellent close focus performance (approx 2m). Supplied with neck cord & case with belt loop. Colour: Silver Material: Black Rubber Grips.



Model	Sprite-IV
Specification	7x18
Magnification	7x
Object Lens Diameter	18mm
Field of View	7.5°
Near Focus	2m
Length	91mm
Weight	190g
Product Code	30874

## ROOF PRISM BINOCULARS

### SPORT

These stylish compact binoculars feature fully coated optics, quality BK-7 prisms, fold-down eyecups and protective rubber armouring. Eye relief 10.5mm (both models). Supplied with neck strap and soft case with belt loop.



### SPORT DELUXE

These extremely stylish compact binoculars feature fully coated optics, quality BK-7 prisms, twist-up eyecups and protective rubber armouring. The focusing mechanism is fully enclosed to help protect against dust penetration etc. Eye relief 10.5mm (both models). Supplied with neck strap and soft case with belt loop.



Model	Sport	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7°	5.5°
Actual Field of View	122m@1000m	96m@1000m
Nearest Focus Distance	5m	6m
Weight	157g	176g
Product Code	30850	30851

Model	Sport Deluxe	
Specification	8x21	10x25
Magnification	8x	10x
Object Lens Diameter	21mm	25mm
Field of View	7°	7.5°
Actual Field of View	122m@1000m	96m@1000m
Nearest Focus Distance	5m	6m
Weight	229g	251g
Product Code	30852	30853



## MISTRAL WP3

The Mistral WP3 models offer remarkable performance and specification in their class. Outstanding value for birdwatching. High-index BaK4 prisms and fully multi-coated optics provide very good optical performance. Lightweight and comfortable to hold, with stylishly designed protective rubber armouring. Waterproof and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and generous eye relief of 21mm (8x42) and 17mm (10x42). Suitable for spectacle wearers. Integral tripod bush. Supplied with neck strap, rainguard, and soft case. Colour/ Material: Black Rubber.

Model	Mistral WP3	
Specification	8x42	10x42
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of View	6°	5.8°
Actual Field of View	105m@1000m	102m@1000m
Nearest Focus Distance	5m	6m
Weight	630g	645g
Product Code	30854	30855



## NITROSPORT 8x26, 10x26, 8x34 & 10x34

The NitroSport compact and midi ranges of 26mm and 34mm diameter roof prism binoculars feature a stylish modern open hinge design, making them exceptionally lightweight, easy to handle and convenient to store. Great for sports events, nature and general observing. All models feature high index silver coated BaK-4 prisms and multi-coated optics. Waterproof to 0.5m depth for 3 minutes and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and suitable for spectacle wearers. Black protective rubber armouring. Integral tripod bush. Supplied with neck strap, eyepiece rainguard and soft case.



Model	NitroSport			
Specification	8x26	10x26	8x34	10x34
Magnification	8x	10x	8x	10x
Object Lens Diameter	26mm	26mm	34mm	34mm
Field of view	6.8°	5.6°	7.1°	6.1°
Actual Field of View	119m@1000m	98m@1000m	124m@1000m	106m@1000m
Nearest Focus Distance	5.5m	5m	4m	4m
Eye Relief	16mm	14mm	17mm	16mm
Weight	266g	266g	422g	412g
Product Code	30218	30219	30212	30213



## NITROSPORT 8x42 & 10x42

The 42mm models in the NitroSport range are the most popular size for Birdwatching and Nature Observing. The stylish modern open hinge design makes them lightweight and easy to handle. All 42mm models feature high index silver coated BaK-4 prisms and also have the additional benefit of phase-coated prisms for increased brightness and image contrast, as well as being fully multi-coated on all air to glass surfaces. Waterproof to 0.5m depth for 3 minutes and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and suitable for spectacle wearers. Black protective rubber armouring. Integral tripod bush. Supplied with neck strap, eyepiece rainguard and soft case.



42mm Models

Model	NitroSport	
Specification	8x42	10x42
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of view	7.1°	6.1°
Actual Field of View	124m@1000m	106m@1000m
Nearest Focus Distance	3m	3m
Eye Relief	17mm	16mm
Weight	633g	633g
Product Code	30214	30215

*"Very lightweight 8x42 binocular... Good quality exterior that makes them look way more expensive than what they are... Large focus wheel with very smooth mechanism... Great level of optical coatings especially considering the price range... This relatively high level of optics and coatings used translates to a really good quality view that I feel is a match for any at this price point."*

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## NITROSPORT 10x50 & 12x50

The 10x50 and 12x50 models are the largest in the NitroSport roof prism series, with 50mm objective lens diameters for extra light gathering. Again they feature a stylish modern weight-saving open hinge design. Great for Birdwatching, Hunting and General Observing. The 10x50 model is also a good choice for astronomy. Both models feature high index silver coated BaK-4 prisms and Fully multi-coated optics on all air to glass surfaces. In addition the prisms are Phase-Coated for enhanced light transmission and contrast. Waterproof to 0.5m depth for 3 minutes and nitrogen-filled for clear, fog free operation. Twist-up eyepieces and suitable for spectacle wearers. Black protective rubber armouring. Integral tripod bush. Supplied with neck strap, eyepiece rainguard and soft case.



50mm Models



Model	NitroSport	
Specification	10x50	12x50
Magnification	10x	12x
Object Lens Diameter	50mm	50mm
Field of view	5.8°	4.9°
Actual Field of View	101m@1000m	86m@1000m
Nearest Focus Distance	4m	4m
Eye Relief	17mm	16mm
Weight	820g	796g
Product Code	30220	30221

## MISTRAL WP6

The highly specified Helios Mistral WP6 roof prism range comprises ten models over 32mm, 42mm and 50mm objective lens apertures. They are extremely competent instruments for both birdwatching & general observing, and represent truly amazing value. They feature a very stylish, ergonomic, modern top hinge design covered in sleek green rubber armouring. The body is constructed from lightweight but robust polycarbonate. All models feature high-index, silver-coated BaK-4 prisms and fully multi-coated optics which provide excellent optical performance. Images delivered are crisp and sharp, with very good resolution, brightness and depth of field, whilst maintaining colours to a natural level. Near focus capability of all models is 2.5m or less. Waterproof and nitrogen filled for clear, fog-free operation. Twist-up, 3-position eyecups with metal sub-structure. Suitable for spectacle wearers. Knurled metal, easy-grip 2-turn focusing knob. Integral tripod bush. Supplied with neck strap, eyepiece rainguard, objective lens caps and soft case. Colour/ Material: Green Rubber



Model	Mistral WP6						
Specification	8x32	10x32	8x42	10x42	12x42	10x50	12x50
Magnification	8x	10x	8x	10x	12x	10x	12x
Object Lens Diameter	32mm	32mm	42mm	42mm	42mm	50mm	50mm
Field of View	7.4°	5.8°	7.4°	5.8°	4.4°	5.8°	4.7°
Actual Field of View	129m@1000m	101m@1000m	129m@1000m	101m@1000m	77m@1000m	101m@1000m	82m@1000m
Nearest Focus Distance	2m	2m	2m	2m	2m	2.5m	2.5m
Eye Relief	17.5mm	14mm	17.5mm	14mm	17.8mm	17.5mm	14mm
Weight	608g	611g	682g	685g	726g	793g	795g
Product Code	30951	30952	30953	30955	30957	30958	30960



## MISTRAL WP6 ED

The premium Mistral WP6 8x42ED, 10x42ED & 10x50ED models have all the standard features of the non-ED models shown above. In addition, they incorporate exotic Extra-low Dispersion (ED) glass in their construction for enhanced colour fidelity and also have the additional benefit of phase-coated prisms for enhanced light transmission and image contrast.

Model	Mistral WP6 ED		
Specification	8x42ED	10x42ED	10x50ED
Magnification	8x	10x	10x
Object Lens Diameter	42mm	42mm	50mm
Field of View	7.5°	5.9°	5.9°
Actual Field of View	129m@1000m	101m@1000m	103m@1000m
Nearest Focus Distance	2m	2m	2m
Eye Relief	17.8mm	14.3mm	17.8mm
Weight	684g	687g	795g
Product Code	30954	30956	30959

*"The overall image quality was one area where I was very impressed with the Helios Mistral WP6 8x42 (non-ED) binoculars. I will go as far as to say I may have (only very rarely) used binos in this class that are as good as these, but never any better. Indeed in my experience the image quality on this bin is every bit as good as the better mid-range instruments out there....I thought that the overall look and build quality of the exterior is excellent. Indeed it is as good as many far more expensive optics and for me is about as good as it gets within this price range"*

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## LIGHTWING HR

The Helios LightWing HR roof prism models are bright stars in the Helios roof prism range which will satisfy even the most discerning user. Comprising six models over 32mm and 42mm objective lens apertures with exotic ED glass options for the 42mm sizes. They are extremely competent instruments providing high-levels of optical performance for both birdwatching & general observing, whilst offering incredible value. The body is constructed from lightweight but robust magnesium alloy and is covered in stylish green protective rubber armouring. All models feature high-index BaK-4 prisms which are both Phase and Silver Di-Electric coated. Optics are Fully Broadband Multi-Coated with premium extra high-transmission Coatings. These special features combine to provide a light transmission throughput exceeding 90%!! Images delivered are crisp and sharp, with excellent resolution, contrast, brightness and depth of field, with natural levels of colour. The field of view is generously wide with good edge definition. Near focus capability of all models is a highly respectable 2m. Waterproof (30 mins at 1m depth) and nitrogen filled for clear, fog-free operation. Twist-up, 3-position eyecups with metal sub-structure. Suitable for spectacle wearers. Knurled metal, easy-grip focusing knob with about 1.5 turns from closest focus distance to infinity. Integral tripod bush. Supplied with quality neck strap, eyepiece rainguard, objective lens caps and soft case.

Model	LightWing HR			
Specification	8x32	10x32	8x42	10x42
Magnification	8x	10x	8x	10x
Object Lens Diameter	32mm	32mm	42mm	42mm
Field of view	7.8°	6.2°	8.1°	6.5°
Actual Field of View	137m@1000m	109m@1000m	141m@1000m	114m@1000m
Nearest Focus Distance	2m	2m	2m	2m
Eye Relief	15.6mm	14.4mm	17.2mm	15.2mm
Weight	500g	480g	710g	692g
Product Code	30135	30136	30137	30139



32mm Models

42mm Models

## LIGHTWING HR ED

The premium 8x42ED & 10x42ED models have all the standard features of the non-ED models described above. In addition they incorporate exotic Extra-low Dispersion (ED) glass in their construction providing excellent colour correction and true colour fidelity.

Model	LightWing HR ED	
Specification	8x42ED	10x42ED
Magnification	8x	10x
Object Lens Diameter	42mm	42mm
Field of view	8.1°	6.5°
Actual Field of View	141m@1000m	114m@1000m
Nearest Focus Distance	2m	2m
Eye Relief	17.2mm	15.2mm
Weight	710g	692g
Product Code	30138	30140



42mm ED Models

## SLIM PROFILE BINOCULAR TRIPOD ADAPTOR

Designed for roof prism binoculars with a narrow inter-objective distance.

Product Code: 50310



*"With features like a magnesium chassis, you can see and feel that the overall quality of this Helios binocular is very good and externally I do like the great looking and well-functioning eye-cups and focus wheel which are both amongst the better ones that you see at this level. The optical components used and the coatings applied to them are also excellent, which thankfully also translates to a really good quality as well as bright image that in my experience is a match for any at this price level. When you combine all this with a really wide field of view, good close focus and more than acceptable amount of eye-relief, you have a great all round, general use 8x42 binocular that will excel in almost all conditions and uses but especially for uses like bird watching, hunting or wildlife observation."* (LightWing 8X42ED model reviewed)

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## PORRO PRISM BINOCULARS

### AQUILA MS

These high quality mid-sized Waterproof, Nitrogen-Filled centre-focus porro prism binoculars, feature a durable black rubber covering and are designed for fog-free viewing in wet weather conditions. Extremely comfortable to hold due to their convenient, ergonomic design and light weight. They feature Multi-Coated optics and BaK-4 Prisms, providing outstanding optical performance for their relatively compact size. Twist-up rubber eyecups for spectacle wearers. Supplied with neck strap and case.



Model	Aquila MS	
Specification	6.5x32	8.5x32
Magnification	6.5x	8.5x
Object Lens Diameter	32mm	32mm
Field of View	8.2°	7.8°
Actual Field of View	143m@1000m	128m@1000m
Nearest Focus Distance	3.5m	5m
Eye Relief	17mm	14mm
Weight	500g	520g
Product Code	30133	30134

### SOLANA

A range of high quality, well constructed porro prism binoculars finished in attractive, black rubber armouring. Knurled rubber finger grips ensure they are secure and comfortable to hold. All models feature quality BK-7 prisms and all optical surfaces are fully coated, providing very good optical performance. Overall these binoculars offer construction and performance which belie their modest prices. All models are fitted with a tripod adaptor bush and supplied with neck strap, lens caps and soft case. Eye relief as follows: 8x40 (10mm), 7x50 (12mm), 10x50 (10mm), 12x50 (9mm), 16x50 (7mm). Colour/Material: Black Rubber



Model	Solana				
Specification	8x40	7x50	10x50	12x50	16x50
Magnification	8x	7x	10x	12x	16x
Object Lens Diameter	40mm	50mm	50mm	50mm	50mm
Field of View	7.8°	6.8°	6.5°	5.2°	3.8°
Actual Field of View	138m@1000m	119m@1000m	114m@1000m	88m@1000m	61m@1000m
Nearest Focus Distance	7m	7m	8m	12m	12m
Product Code	30206	30207	30208	30209	30210

### FIELDMASTER

A high quality range of ergonomically designed porro prism binoculars offering an exceptional combination of performance, features and value. All models feature high quality BaK-4 prisms and multi-coated optics. Long-eye relief and fold-back rubber eyecups for spectacle wearers. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Black Rubber.

Model	Fieldmaster				
Specification	8x40	7x50	10x50	12x50	16x50
Magnification	8x	7x	10x	x12	x16
Object Lens Diameter	40mm	50mm	50mm	50mm	50mm
Field of View	6°	6°	5.5°	4.5°	4°
Actual Field of View	119m@1000m	110m@1000m	105m@1000m	90m@1000m	73m@1000m
Eye Relief	18mm	19mm	18mm	17mm	17mm
Length	135mm	180mm	180mm	180mm	180mm
Weight	635g	825g	825g	825g	825g
Product Code	30692	30685	30686	30687	30688



Applies to 7x50 Model



### NATURESPORT 7x50 FOCUS-FREE

This model does not require focusing, making it extremely easy to use and practical for viewing moving-subject activities such as motor sports, racing events as well as for general-purpose observations. The only downside is that it will not focus as closely as a centre-focus model and should be used for viewing objects at least 15 metres away. Features BK-7 prisms, fully coated optics, integral tripod bush & fold-down rubber eyecups. Supplied with neckstrap and case. Colour/Material: Black Rubber

Model	Naturesport 7x50
Specification	7x50 Focus Free
Magnification	7x
Object Lens Diameter	50mm
Field of view	7.1°
Actual Field of View	124m@1000m
Eye Relief	19mm
Length	170mm
Weight	780g
Nearest Focus Distance	15m
Product Code	30307



# BINOCULARS



## NATURESPORT 8-20x50 ZOOM

This model features a powerful but practical 8x-20x zoom magnification, so you can choose the magnification to suit the occasion. Feature BK-7 prisms, fully coated optics, integral tripod bush and fold-down eyecups. Supplied with neck strap and case. Colour/Material: Black Rubber.

Model	Naturesport 8-20x50 Zoom
Specification	8-20x50
Magnification	8x-20x
Object Lens Diameter	50mm
Field of view	4.7° - 2.7°
Actual Field of View	82-47m@1000m
Eye Relief	16mm-15mm
Length	180mm
Weight	830g
Nearest Focus Distance	7m
Product Code	30276



## NATURESPORT-PLUS HIGH RESOLUTION

These models feature the same stylish, soft natural rubber design and styling as the Naturesport range except these models have been upgraded with advanced features for maximum performance. Optical performance is superb due to premium quality BaK-4 prisms, multi-coated optics, long eye relief, and oversized eye-lenses. Twist-up eyecups for spectacle wearers. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Black Rubber.

Model	Naturesport-Plus		
Specification	8x40WA	7x50	10x50WA
Magnification	8x	7x	10x
Object Lens Diameter	40mm	50mm	50mm
Field of View	8.2°	6.5°	6.5°
Actual Field of View	143m@1000m	114m@1000m	114m@1000m
Eye Relief	19mm	19mm	19mm
Length	130mm	170mm	170mm
Weight	690g	790g	790g
Product Code	30681	30683	30682

**8x40 Model**

**10x50 Model**

BEST 10x50 BINO'S UNDER £125



Model	Oceanmaster-RC
Specification	7x50
Magnification	7x
Object Lens Diameter	50mm
Field of view	6.6°
Length	185mm
Weight	1140g
Product Code	30701

## OCEANMASTER-RC

Heavy-duty, nitrogen filled, waterproof binoculars, specially designed for professional marine use. Feature superior quality BaK-4 prisms, individual eyepiece focusing and robust rubber armouring. Fitted with an internal compass, range-finder scale and compass illuminator for navigational purposes. Tripod adaptor bush. Supplied with neck strap and case. Colour/Material: Blue/Black Rubber.

## BINOCULAR/TRIPOD ADAPTORS

Allows binoculars with a tripod adaptor bush, to be fitted to any standard photographic tripod, when maximum viewing stability is required. The Slimline Tripod Adaptor is best for roof prism binoculars with a narrow inter-objective barrel distance. The larger, Heavy-Duty Adaptor is a must for larger porro prism binoculars.

- Slimline Tripod Adaptor**      Product Code 50310
- Heavy-Duty Tripod Adaptor**      Product Code 50311



## STELLAR-II SERIES HIGH RESOLUTION OBSERVATION BINOCULARS

High quality waterproof, nitrogen filled observation binoculars, with individual eyepiece (IF) focusing, designed for medium-to-long-range terrestrial, marine and astronomical observations. Shockproof design incorporating a robust but lightweight magnesium alloy body construction. Features BaK-4 prisms and a fully broadband multi-coated optical system. The optical system features high-transmission lens and prism coatings allowing 85% light transmission. Eyepiece design features oversized elements, generous 16-20mm eye-relief and fold-down rubber eyecups for spectacle-wearers. Features integral tripod mounting bush. Finished in stylish dark green rubber and supplied in soft storage/carrying case with padded neck strap. 100mm model supplied with hard case. Complete with eyepiece rainguard and captive objective lens caps.

*"Where these (16x80) binoculars really excelled was on open clusters and extended deep-sky objects such as galaxies and bright nebulae. The Pleiades leapt out at us, its collection of hot blue-white stars blazing like diamonds under a spotlight"*

**BBC SKY AT NIGHT MAGAZINE**

Model	Stellar-II							
Specification	7x50	10x50	10.5x70	15x70	16x80	20x80	20x100	25x100
Magnification	7x	10x	10.5x	15x	16x	20x	20x	25x
Object Lens Diameter	50mm	50mm	70mm	70mm	80mm	80mm	100mm	100mm
Field of View	7.2°	6.5°	4.8°	4.4°	4°	3.2°	3.2°	2.6°
Actual Field of View	126m@1000m	114m@1000m	84m@1000m	77m@1000m	70m@1000m	56m@1000m	56m@1000m	45m@1000m
Eye Relief	20mm	20mm	20mm	20mm	20mm	16mm	20mm	16mm
Exit Pupil Diameter	7.14mm	5mm	6.66mm	4.66mm	5mm	4mm	5mm	4mm
Weight	1150g	1150g	1750g	1750g	2400g	2400g	3600g	3600g
Product Code	30129	30130	30131	30132	30148	30149	30150	30151



## APOLLO-HR SERIES HIGH RESOLUTION OBSERVATION BINOCULARS

Top quality waterproof, nitrogen filled, rubber armoured observation binoculars, with individual eyepiece (IF) focusing, designed for medium-to-long-range terrestrial and astronomical observations. The Apollo 7x50 is also a fine binocular for marine use. Shockproof design incorporating a robust all-metal body construction. Features BaK-4 prisms and a fully broadband multi-coated optical system. The high-resolution optical system features high-transmission lens and prism coatings allowing a massive 92% light transmission, producing a flat field and distortion-free images. Exotic eyepiece design featuring oversized elements, long eye-relief and fold-down rubber eyecups for spectacle-wearers. Features integral tripod mounting bush and threaded eyepiece units to accept standard 1.25" astronomical light-filters. Supplied in foam-lined storage/carrying case.

Model	Apollo-HR				
Specification	7x50	10.5x70	15x70	15x85	22x85
Magnification	7x	10.5x	15x	15x	22x
Object Lens Diameter	50mm	70mm	70mm	85mm	85mm
Field of View	7.5°	5°	4°	3.5°	3°
Actual Field of View	131m@1000m	87m@1000m	77m@1000m	61m@1000m	52m@1000m
Eye Relief	23mm	23mm	20mm	23mm	18mm
Exit Pupil Diameter	7.1mm	6.66mm	4.66mm	5.66mm	3.86mm
Weight	1.56kg	2.5kg	2.5kg	4.8kg	4.8kg
Product Code	30205	30121	30122	30123	30124





## LIGHTQUEST-HR HIGH RESOLUTION WATERPROOF OBSERVATION BINOCULARS (MAGNESIUM BODY)

The high-end Helios LightQuest-HR observation binoculars combine top features in mechanical and optical design, with outstanding performance to match! They are fully waterproof (IPX7 standard, 1m depth for 30 minutes) and nitrogen filled for clear fog-free operation, with individual eyepiece (IF) focusing and designed for medium-to-long-range terrestrial and astronomical observations. The body material is constructed from magnesium alloy making the binocular extremely lightweight, whilst maintaining a very robust structure. The body is covered in stylish hard textured leatherette (50mm & 70mm models) or protective rubber armouring (80mm & 100mm models). Feature high-index BaK-4 prisms and a fully broadband multi-coated optical system and shockproof caged prisms. The high-resolution optical system features high-transmission lens and prism coatings allowing a massive light throughput equal to or exceeding 90%. The lens coatings have an extremely low level of reflectivity, ensuring the maximum amount of precious light is provided at the eyepiece. Images delivered are vibrant, very flat edge-to-edge and virtually distortion free. The advanced innovative eyepiece design (8 elements in 5 groups) features oversized eye lens elements for comfortable viewing and provides a highly corrected image. Fold-down rubber eyecups are provided for spectacle-wearers. Supplied with objective lens caps, eyepiece rainguard, neoprene neck strap (50mm & 70mm models) and heavy-duty tripod adaptor, in durable padded fabric carrying case (50mm, 70mm & 80mm models) or hard carrying case (100mm & 110mm models). A heavy-duty tripod adaptor is supplied with the 50mm, 70mm & 80mm models, and the 100mm & 110mm models have a tripod mounting block located on the central stabilising bar.



### FOTOMATE VT-680-222R

#### EXTRA HEAVY DUTY PROFESSIONAL 2-WAY TRIPOD

The Fotomate VT-680-222R is an excellent, professional standard tripod ideal for most large observation binoculars. Features a generous maximum payload capacity of 8kg and an impressive maximum height of 197cm. Please see page 77 for full details

Product Code 50400

*Shown with Quantum-5.2 fitted*



Model	LightQuest-HR 10x50
Specification	10x50
Magnification	10x
Object Lens Diameter	50mm
Field of View	6.5°
Actual Field of View	114m@1000m
Exit Pupil Diameter	5mm
Nearest Focus Distance	10m
Eye Relief	20mm
Weight	1320g
Product Code	30141

Model	LightQuest-HR 11x70 & 16x70
Specification	11x70    16x70
Magnification	11        16x
Object Lens Diameter	70mm    70mm
Field of View	4.8°      4.1°
Actual Field of View	84m@1000m    72m@1000m
Exit Pupil Diameter	6.36mm    4.37mm
Nearest Focus Distance	20m        24m
Eye Relief	23mm      20mm
Weight	1900g      1930g
Product Code	30142      30143

Model	LightQuest-HR 16x80 & 20x80
Specification	16x80    20x80
Magnification	16x        20x
Object Lens Diameter	80mm    80mm
Field of view	4.1°      3.3°
Actual Field of View	72m@1000m    58m@1000m
Exit Pupil Diameter	5mm        4mm
Nearest Focus Distance	26m        23m
Eye Relief	20mm      16mm
Weight	2490g      2490g
Product Code	30144      30145

Model	LightQuest-HR 20x100 & 25x100
Specification	20x100    25x100
Magnification	20x        25x
Object Lens Diameter	100mm    100mm
Field of view	3.3°      2.7°
Actual Field of View	58m@1000m    47m@1000m
Exit Pupil Diameter	5mm        4mm
Nearest Focus Distance	38m        34m
Eye Relief	20mm      16mm
Weight	3990g      3990g
Product Code	30146      30147

Model	LightQuest-HR 23x110 & 28x110
Specification	23x110    28x110
Magnification	23x        28x
Object Lens Diameter	110mm    110mm
Field of view	2.9°      2.4°
Actual Field of View	51m@1000m    42m@1000m
Exit Pupil Diameter	4.78mm    3.93mm
Nearest Focus Distance	40m        36m
Eye Relief	20mm      16mm
Weight	4500g      4500g
Product Code	30152      30153

## QUANTUM-5.2 20/40x100 SEMI-APO OBSERVATION BINOCULARS (TRIPLET, 45° ANGLED)

Top-quality waterproof observation binocular with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. Top quality objective lens triplet. Supplied with two pairs of eyepieces. Eyepieces are angled at 45°, offering excellent versatility for both terrestrial and astronomical viewing. Features carrying handle, built-in lens hoods and tripod adaptor. High quality precision all-metal construction. Supplied in foam-lined storage/carrying case. **Accepts Standard 1.25" Telescope Eyepieces**

Picture shows lens hood extended

Model	Quantum-5.2
Specification	20/40x100
Magnification	20x & 40x
Object Lens Diameter	100mm
Field of View	42m/26m@1000m
Near Focus	20m
Weight	7.6kg
Product Code	30833

## QUANTUM-6.3 22x100 SEMI-APO OBSERVATION BINOCULARS (TRIPLET, 90° ANGLED)

Top-quality waterproof, nitrogen-filled observation binoculars with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. The top quality triplet objective lenses deliver superb, semi-apochromatic optical performance. Supplied with one pair of x20 eyepieces. Eyepieces are angled at 90° making them ideal for high-angle astronomical viewing. Features carrying handle, built-in lens hoods and tripod adaptor. High quality precision all-metal construction. Supplied in foam-lined storage/carrying case. **Accepts Standard 1.25" Telescope Eyepieces**

Picture shows lens hood extended

Model	Quantum-6.3
Specification	22x100
Magnification	22x
Object Lens Diameter	100mm
Field of View	37m@1000m
Near Focus	40m
Weight	6.5kg
Product Code	30985

**Sky at Night**  
MAGAZINE  
**GROUP TEST**  
**WINNER**  
**91%**

## QUANTUM 7.4 25x100 OBSERVATION BINOCULAR (TRIPLET, 45° ANGLED)

Top-quality observation binocular with individual helical eyepiece focusing, designed for medium-to-long-range terrestrial and astronomical observations. Incorporating oversized BaK-4 prisms and a fully broadband multi-coated optical system. Top quality triplet objective lenses provide semi-apochromatic optical performance. Eyepieces are angled at 45°, offering excellent versatility for both terrestrial and astronomical viewing. The eyepieces can also be removed, and replaced with many standard 1.25" astronomical eyepieces for added versatility. The U-Fork mount is specially designed for astronomical use, allowing the binocular to be angled upwards for use at high altitudes approaching the zenith. Features built-in lens hoods, finderscope shoe and carrying handle. High quality precision all-metal construction. Supplied with heavy-duty hardwood tripod. Binocular supplied in foam-lined storage/carrying case. **Accepts Standard 1.25" Telescope Eyepieces**

Model	Quantum-7.4
Specification	25x100
Magnification	25x
Object Lens Diameter	100mm (Semi-Apo Triplet)
Field of View	2.53°
Near Focus	30m
Weight	13kg (Bino) + 7.1kg (Tripod)
Product Code	30876





## EVOSTAR-80ED DS-PRO OTA

80mm (3.1") f/7.5 ED Apochromatic Refractor

The Sky-Watcher EVOSTAR-80ED DS-PRO is a first class choice for Birdwatching, when used with an erecting prism, as well as Astronomy at a high level.



Product Code: 10202



These versatile Sky-Watcher short-tube refractor models excel for terrestrial observations as well as deep-sky astronomical observing. Daytime spotting users love the precision control and rock steadiness of the AZ3 & AZ5 deluxe alt-azimuth mounts with adjustable aluminium tripods and accessory tray. They both feature flexible slow-motion control cables, one for vertical and one for horizontal control. They accurately track moving objects with ease.

## MERCURY-705 (AZ3) 70mm f/7 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
- AZ3 Alt-Azimuth Mount & Tripod

Mercury-705 (AZ3)  
Product Code: 10721

## STARTRAVEL-102 (AZ3) 102mm f/4.9 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
- Multi-Coated Objective Lens
- AZ3 Alt-Azimuth Mount & Tripod

Startravel-102 (AZ3)  
Product Code: 10732

## STARTRAVEL-120 (AZ3) 120mm f/5 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x24 & x60
- Multi-Coated Objective Lens
- AZ3 Alt-Azimuth Mount & Tripod

Startravel-120 (AZ3)  
Product Code: 10736

## STARTRAVEL-80T OTA 80mm f/5 SPOTTING SCOPE

- Magnifications (with optics supplied): x16, x32, x40, x80
  - Will fit to standard photographic tripod
- Product Code: 10734



**Lotus Flower**- Photo taken through Sky-Watcher 80/400 Refractor (Startravel-80) Photo courtesy of David Shen, Vancouver, BC, Canada



**Bird's Head**- Photo taken through Sky-Watcher 102/500 Refractor (Startravel-102) Photo courtesy of William Ronald, Vancouver, BC, Canada

## STARTRAVEL-102T OTA 102mm f/4.9 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
  - Will fit to standard photographic tripod
- Product Code: 10735



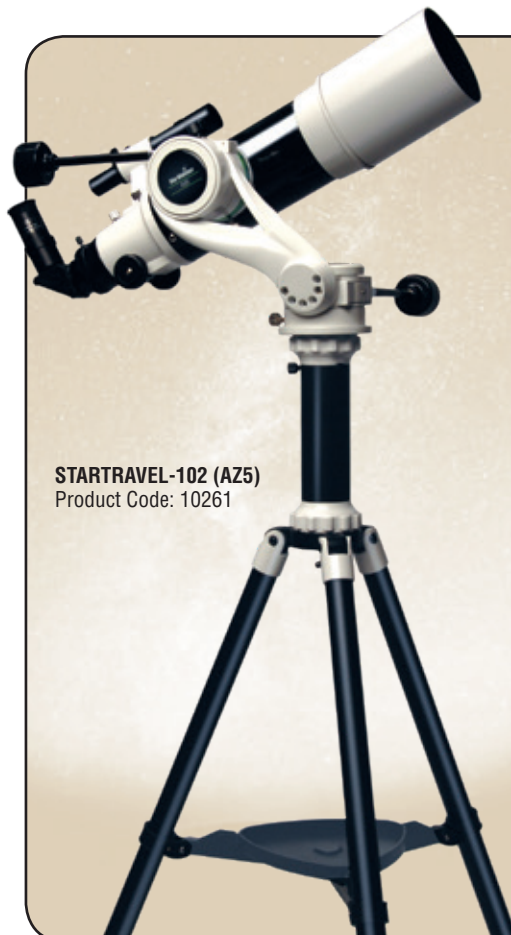
## STARTRAVEL-120T OTA 120mm f/5 SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x24 & x60
  - Will fit to standard photographic tripod
- Product Code: 10940



## STARTRAVEL-102 (AZ5) 102mm (f/5) SPOTTING SCOPE

- Magnifications (with eyepieces supplied): x20 & x50
  - Multi-Coated Objective Lens
  - AZ5 Deluxe Alt-Azimuth Mount & Tripod
- Product Code: 10261



STARTRAVEL-102 (AZ5)  
Product Code: 10261

The proven Evostar-90 refractor is available with either the AZ3 or AZ PRONTO grab-and-go alt-azimuth mounts. With its long focal length it can be used for medium to high power terrestrial observations as well as being an excellent telescope for straightforward visual astronomy for observation of the Moon, Stars and Bright Planets.



## EVOSTAR-90 (AZ3) 90mm f/10 Alt-Azimuth Achromatic Refractor

- Magnifications (with eyepieces supplied): x36 & x90
  - Multi-Coated Objective Lens
  - AZ3 Alt-Azimuth Mount & Tripod
- Product Code 10723



## EVOSTAR-90 (AZ PRONTO) 90mm f/10 Alt-Azimuth Achromatic Refractor

- Magnifications (with eyepieces supplied): x36 & x90
  - Multi-Coated Objective Lens
  - AZ Pronto Alt-Azimuth Mount & Tripod
- Product Code: 10271

## FIELDMASTER A90R 25-75x90 WATERPROOF ZOOM SPOTTING SCOPE

The excellent Fieldmaster A90R offers large aperture & high magnification performance at a remarkable price. The spotting scope is clad in stylish black rubber armouring to protect against knocks and is waterproof and nitrogen-filled for fog-free viewing. Lightweight polycarbonate body. Features a triplet objective lens, BaK-4 Prisms, fully multi-coated optics and an extendable dew shield/sun shade. Eye relief 16mm. Supplied with Case.



Model	Fieldmaster-A90R
Specification	25-75x90
Magnification	25x-75x Zoom
Object Lens Diameter	90mm
Field of View	1.6°-0.8°
Actual Field of View	28m-14m@1000m
Nearest Focus Distance	10m
Weight	1800g
Product Code	40904

## FIELDMASTER-ED82DS TRIPLET 20-60x82ED DUAL-SPEED WATERPROOF ZOOM SPOTTING SCOPE

The top of the range Fieldmaster-ED82DS is perfect for the most discerning birdwatcher and nature observer. This high-end instrument features a triplet objective lens which provides a highly corrected image and exceptional optical performance, even to the edge of the field. Two Exotic ED (Extra-low dispersion) lens elements are employed in its construction, which virtually eliminate chromatic aberrations, and deliver high-fidelity true-colour images. Features high quality BaK-4 Prisms. Optics are fully broadband multi-coated throughout for maximum light transmission and contrast. Features a precision 4:1 ratio dual-speed focuser for exceptional focusing accuracy. The stylish spotting scope body is constructed from robust but lightweight magnesium alloy, with a sliding dewshield/ sun shade. Fully waterproof and nitrogen-filled for clear, fog-free viewing. The supplied 7.5-22.5mm zoom eyepiece, constructed from 8 lens elements, provides a generous 19.5-18mm of eye relief and is suitable for use with or without spectacles. Supplied with Stay-on case. Standard tripod mounting bush.



Model	Fieldmaster-ED82DS Triplet
Specification	20-60x82ED
Magnification	20x-60x
Object Lens Diameter	82mm
Field of view	2.1°-1.05°
Actual Field of View	39m-20m@1000m
Nearest Focus Distance	13m
Weight	1885g
Focal Length	450mm
Multi-Coated Optics	Yes
Product Code	40910



## FIELDMASTER-ED85DS 20-60x85ED DUAL-SPEED WATERPROOF ZOOM SPOTTING SCOPE

The high-end Fieldmaster-ED85DS is perfect for the discerning birdwatcher and nature observer. This refined instrument features a doublet objective lens which provides a highly corrected image and excellent optical performance. One Exotic ED (Extra-low dispersion) lens element is employed in its construction, which virtually eliminates chromatic aberration and delivers high-fidelity true-colour images. Features high quality BaK-4 Prisms. Optics are fully broadband multi-coated throughout for maximum light transmission and contrast. Features a precision 4:1 ratio dual-speed focuser for exceptional focusing accuracy. The stylish spotting scope body is constructed from robust but lightweight magnesium alloy, with a sliding dewshield/sun shade. Fully waterproof and nitrogen-filled for clear, fog-free viewing. The supplied 7.5-22.5mm zoom eyepiece, constructed from 8 lens elements, provides a generous 20-18mm of eye relief and is suitable for use with or without spectacles. Supplied with Stay-on case. Standard tripod mounting bush.



Model	Fieldmaster-ED85DS
Specification	20-60x85ED
Magnification	20x-60x
Object Lens Diameter	85mm
Field of view	2.2°-1.1°
Actual Field of View	38m-20m@1000m
Nearest Focus Distance	4.5m
Weight	1950g
Focal Length	457.7mm
Multi-Coated Optics	Yes
Product Code	40911



## NATURECLOSE™ WATERPROOF SPOTTING SCOPES

The superb Acuter NatureClose™ Series Spotting Scopes are perfect for serious terrestrial observations. Optical performance is excellent, with all models delivering crisp, bright, sharp, high-resolution images, across the entire field of view. An 8-24mm Zoom eyepiece is included with each model as standard. The standard multi-coated zoom eyepiece offers generous eye-relief. Fold-down rubber eyecup suitable for spectacle wearers. The objective lenses are multi-coated for maximum light transmission and image contrast. Six models are available with a choice of 65mm, 80mm or 100mm objective lens diameters and Straight or 45° viewing angles. Focusing is ultra-smooth and the robust aluminium telescope tubes are covered with a protective rubberised paint finish to help protect from the elements and to provide a comfortable grip. All models can be mounted on a standard photographic tripod via a standard tripod mounting bush. All models supplied with quality padded case. Colour/Material: Black/Green Rubber, Rubberised Coating.

*“With the included 20x-60x (8-24mm) Zoom Eyepiece, this scope is ideal for a variety of uses including birdwatching, general nature and wildlife observation, target shooting and the fairly large 80mm objective lens means that you can even use it for casual astronomy....So to sum up, the Acuter ST20-60X80A Speed Spotting Scope easily outperforms it's price tag and makes an excellent choice for anyone looking for a good all round entry-mid level scope.” (80mm Angled Model)*

[WWW.BESTSPOTTINGSCOPEREVIEWS.COM](http://WWW.BESTSPOTTINGSCOPEREVIEWS.COM)



**ST65A (45° Angled)**  
Product Code: 40913



**ST65B (Straight)**  
Product Code 40914



**ST80A (45° Angled)**  
Product Code: 40915

Sky at Night  
Magazine  
**HIGHLY  
COMMENDED**  
92%



**ST80B (Straight)**  
Product Code: 40916



**ST100A (45° Angled)**  
Product Code: 40917



**ST100B (Straight)**  
Product Code: 40918

Model	ST65A & ST65B	ST80A & ST80B	ST100A & ST100B
Specification	16-48x65	20-60x80	22-67x100
Magnification	16x-48x	20x-60x	22x-67x
Object Lens Diameter	65mm	80mm	100mm
Field of View	2.5°-1.26°	2°-1°	1.8°-0.9°
Actual Field of View	43m-23m@1000m	37m-19m@1000m	33m-17m@1000m
Nearest Focus Distance	6.5m	7.5m	8.5m
Focal Length	386mm	480mm	540mm
Weight	1066g	1405g	1875g

## NATURECLOSE™ DSLR CAMERA ADAPTOR

A T2 camera adaptor is available for the attachment of either SLR or DSLR cameras, and can be used in conjunction with the zoom eyepiece supplied.

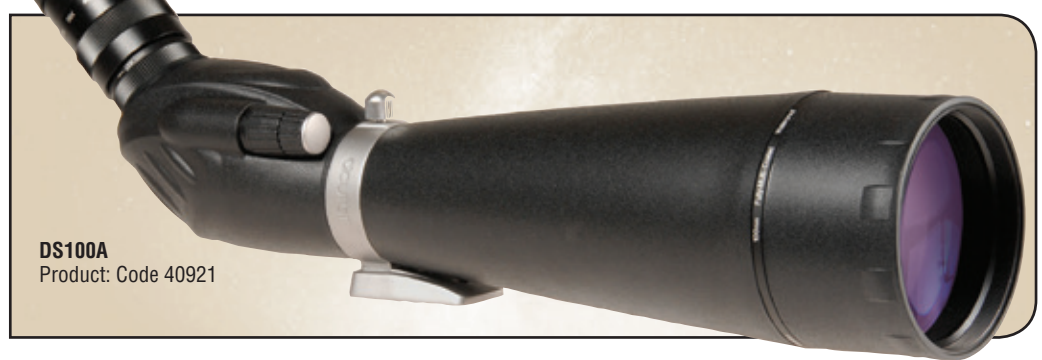
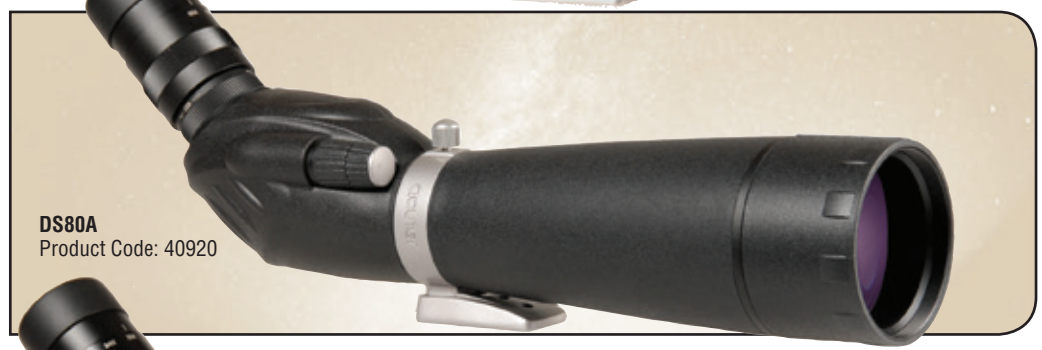
Product Code: 40947



## GRANDVISTA™ DUAL-SPEED WATERPROOF SPOTTING SCOPES

Acuter GrandVista™ series advanced achromatic waterproof spotting scopes are exceptionally stylish and highly functional precision optical instruments. All models feature a 15:1 ratio dual-speed focuser for excellent focusing precision. They combine superb optical performance, excellent colour correction & robust mechanical design with many other desirable high-end features that make them perfect companions for Birdwatching, Serious Nature Observations, Target Shooting and even Astronomy. Supplied as standard with a very high quality 8-24mm Zoom Eyepiece (eye relief 20mm), with twist up eyecup, but can be used with virtually any standard 1.25" push-fit telescope eyepiece for exceptional versatility. Eyepieces are held securely via a brass compression ring. The spotting scope can be fully rotated in its collar to change the orientation of the eyepiece, a useful feature for target shooters. Optics are multi-coated for maximum light transmission and image contrast. Shock resistant rubber armouring. Integral tripod mounting bush. Extendable sun shade with sighting line. Supplied with padded stay-on case & DSLR camera adaptor mounting ring.

All Models Supplied with Dual-Speed Focuser and accept 1.25" Push-Fit Telescope Eyepieces



Model	DS65A	DS80A and DS80A-ED	DS100A
Specification	16-48x65	20-60x80	22-67x100
Magnification	16x-48x	20x-60x	22x-67x
Object Lens Diameter	65mm	80mm	100mm
Field of View	2.6°-1.3°	2°-1°	1.9°-0.9°
Actual Field of View	45m-23m@1000m	37m-17m@1000m	33m-17m@1000m
Nearest Focus Distance	4.5m	6m	8m
Focal Length	386mm	480mm	540mm
Weight	1700g	2035g	2500g

## GRANDVISTA™ DS80A-ED DUAL-SPEED WATERPROOF SPOTTING SCOPE

The DS80A-ED model shares the same features with the other GrandVista™ models with one major difference. One objective lens element is constructed from expensive ED (Extra-Low Dispersion) glass, which virtually eliminates chromatic aberrations, providing near perfect colour reproduction and an even purer viewing experience.



*"...I think the biggest strong point is the fact that you get what must be said is overall a really good quality and high powered scope for what is a very good price. The quality of almost every aspect of this scope is well above that of other scopes in this price range and with features like the dual speed focuser, fully multi-coated optics and a tough waterproof body you are getting plenty of scope for your money...Weak points? There is nothing really bad about this scope and considering its price, this is pretty remarkable."* **Review of DS80A**  
[WWW.BESTSPOTTINGSCOPEREVIEWS.COM](http://WWW.BESTSPOTTINGSCOPEREVIEWS.COM)



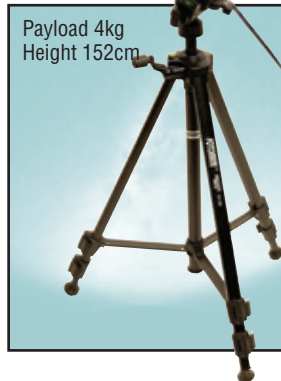
## HIGH QUALITY 2-WAY TRIPODS WITH PAYLOAD CAPACITIES FROM 4kg - 20kg

### FOTOMATE VP-106 2-WAY TRIPOD

Provides an economical platform for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 80mm and many binoculars up to 80mm in diameter. Payload capacity 4kg.

- 2-Way Oil Fluid Panhead
- Payload Capacity: 4kg
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 58cm to 152cm
- Geared Centre Column
- 360° Panning, -85° Forward Tilt, +90° Elevation
- 23mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level • Weight: 1.33kg
- Nylon Carrying Case

**Fotomate VP-106 Tripod** Prod.Code: 50405  
**Spare Quick Release Plate** Prod.Code: 50414



### FOTOMATE VT-5006 MEDIUM DUTY 2-WAY TRIPOD

Suitable for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 100mm and many binoculars up to 100mm in diameter. Payload capacity 5kg.

- 2-Way Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- Payload Capacity: 5kg
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 61cm to 156cm
- Geared Centre Column
- 360° Panning, -50° Forward Tilt, +90° Elevation
- 26mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level • Weight: 1.89kg
- Nylon Carrying Case

**Fotomate VT-5006 Tripod** Prod.Code: 50404  
**Spare Quick Release Plate** Prod.Code: 50413



### FOTOMATE VT-6006 HEAVY-DUTY 2-WAY TRIPOD

Suitable for video cameras, DSLR's and compact digital cameras, as well as for spotting scopes up to 100mm and many binoculars up to 100mm in diameter. Payload capacity 6kg.

- 2-Way Heavy Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position R/H Pan Handle
- Payload Capacity: 6kg
- QR Plate with 1/4" Attachment Screw and Video Pin
- Min/Max Height: 70cm to 172cm
- Geared Centre Column
- 360° Panning, -60° Forward Tilt, +90° Elevation
- 29mm Diameter 3-Section Aluminum Legs
- Adjustable Rubber Feet with Metal Spikes
- Bubble level • Weight: 2.45kg
- Nylon Carrying Case

**Fotomate VT-6006 Tripod** Prod.Code: 50403  
**Spare Quick Release Plate** Prod.Code: 50412



### FOTOMATE VT-2900 EXTRA HEAVY-DUTY SEMI-PROFESSIONAL 2-WAY TRIPOD

An excellent semi-professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a maximum payload capacity of 8kg, excellent stability and a maximum height of 177cm. The superb extra heavy-duty 2-Way tripod head is extremely robust and well-engineered. Operation is extremely smooth & well damped.

- 2-Way Extra Heavy-Duty Oil Fluid Panhead
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- Payload Capacity: 8kg • Geared Centre Column
- QR Plate with 1/4" & 3/8" Attachment Screws and Video Pin • Security Retention on QR Plate
- Min/Max Height: 82cm to 177cm
- 360° Panning, -65° Forward Tilt, +90° Elevation
- 29mm Diameter 3-Section Aluminum Legs
- Rubber Feet • Bubble level • Weight: 4.79kg
- Nylon Carrying Case

**Fotomate VT-2900 Tripod** Prod.Code: 50402  
**Spare Quick Release Plate** Prod.Code: 50411



### FOTOMATE VT-680-222R EXTRA HEAVY DUTY PROFESSIONAL 2-WAY TRIPOD

An excellent, professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a maximum payload capacity of 8kg and a maximum height of 197cm. This tripod does not feature a geared centre column so the tripod offers greater rigidity and stability. The superb extra heavy-duty 2-Way tripod head is extremely robust and well-engineered. Operation is very smooth and well damped under maximum load.

- 2-Way Extra Heavy-Duty Oil Fluid Panhead
- Payload Capacity: 8kg
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- QR Plate with 1/4" & 3/8" Attachment Screws and Video Pin
- Security Retention on QR Plate
- Min/Max Height: 93.5cm to 197cm
- 360° Panning, -65° Forward Tilt, +90° Elevation
- 3-Section Aluminum Legs
- Rubber Feet • Bubble level
- Weight: 4.78kg • Nylon Carrying Case

**Fotomate VT-680-222R** Prod.Code: 50400  
**Spare Quick Release Plate** Prod.Code: 50411



### FOTOMATE VT-990-222R SUPER HEAVY-DUTY PROFESSIONAL 2-WAY TRIPOD

An outstanding professional standard tripod for video cameras & DSLR's, as well as for spotting scopes, telescopes and most large observation binoculars. Features a huge payload capacity of 20kg and a maximum height of 200cm. This tripod does not feature a geared centre column so the tripod offers greater rigidity and stability. The superb super heavy-duty 2-Way tripod head, is extremely robust and well-engineered. Operation is sublimely smooth and well damped, managing heavy loads with consummate ease.

- 2-Way Super Heavy-Duty Oil Fluid Panhead
- Payload Capacity: 20kg
- Adjustable Panhead Tension & Lock
- Multi-Position L/R Mountable Pan Handle
- QR Plate with 1/4" & 3/8" Attachment Screws & Video Pin
- Security Retention on QR Plate
- Min/Max Height: 95cm to 200cm
- 360° Panning, -85° Forward Tilt, +85° Elevation
- 3-Section Aluminum Legs • Rubber Feet
- Bubble level • Weight: 5.85kg • Nylon Carrying Case

**Fotomate VT-990-222R** Prod.Code: 50401  
**Spare Quick Release Plate** Prod.Code: 50415



### FOTOMATE TRIPOD BALL HEADS

Fotomate precision Ball Heads are robustly constructed from aluminium and will fit to any tripod with a standard 1/4" or 3/8" screw connection. They allow your equipment to be mounted via a standard 1/4" screw attachment, manipulated at any angle and then clamped safely and securely in position.



Model	Fotomate H-26	Fotomate H-26QR	Fotomate H-28QR
Payload Capacity	3.5kg	3.5kg	4.5kg
Base Diameter	43mm	43mm	56mm
Height	70mm	74mm	100mm
Weight	172g	256g	416g
Product Code	50406	50407	50408
<b>Spare Quick Release Plate</b>	N/A	50409	50410

## EVOLUTION 9569AC 3-WAY MEDIUM-DUTY TRIPOD

A good quality tripod offering an economically priced platform for Spotting Scopes up to 100mm in Diameter and observation binoculars of up to 80mm Diameter. Also recommended for Camcorders and Compact Digital Cameras.

- Maximum Height (fully extended): 150cm • Minimum Height (retracted): 53cm
- Quick-Adjust Vertical Tension
- Geared 32cm Centre Column with Lock & Brace • Tilting Photographic Head allows Portrait Photography
- 3-Section Aluminium Legs with Clip-type Leg-Locks • 360° Panning, -90° to +60° Vertical Adjustment
- Bubble-Level for Accurate Levelling
- Innovative Loop Pan Handle Doubles as Carrying Handle • Rubber Feet
- Weight 1.6kg



Product Code: 50841

Spare Quick-Release Plate Prod. Code: 50894

## HORIZON 8115 2-WAY HEAVY-DUTY TRIPOD

This robustly constructed model combines excellent stability, with precise control, and is ideal for a wide variety of imaging equipment. Comfortably manages all Spotting Scopes and Observation Binoculars of up to 100mm in Diameter. Can be used effectively indoors, or in the field. Recommended for Serious Nature Observing, Astronomical Observing, & Video applications.

- Maximum Height (fully extended): 180cm
- Minimum Height (retracted): 78cm
- Quick-Adjust Vertical Tension
- Geared 31cm Centre Column with Lock & Brace • 360° Panning, -90° to +60° Vertical Adjustment
- 3-Section Heavy-Duty Tubular Aluminium Legs • Bubble-Level for Accurate Levelling
- Heavy-Duty Twist-Type Leg-Locks with Rubber Grips • Self-Levelling Rubber Feet with Screw-out Metal Spikes • Weight 3.58kg



Product Code: 50842

Spare Quick-Release Plate Product Code: 50896

## SKYWATCHER ALLVIEW™ MULTI-FUNCTION COMPUTERISED MOUNT AN INGENUOUS MOTORISED PLATFORM FOR PANORAMIC TERRESTRIAL PHOTOGRAPHY, ASTRONOMY, TERRESTRIAL OBSERVATIONS, SECURITY & SURVEILLANCE

The award winning, innovative and highly versatile Sky-Watcher Allview motorised robotic mount & tripod is an indispensable companion for all your imaging and observational needs. The Allview can be used for 360° Panoramic or Still Time Lapse photography, Video Capture, a Go-To mount for Astronomy or simply a stable motorised platform for mounting a spotting scope or binoculars. The Allview is also a useful tool for security and surveillance applications. The Allview was the 2011 winner of the prestigious International CES Innovations award for design and engineering excellence.

### TAKE AMAZING PANORAMIC TERRESTRIAL PHOTOGRAPHS WITH YOUR DSLR

The supplied multi function L-bracket will accept most cameras via a standard 1/4-20 tripod bush, and can orientate the camera in both portrait and landscape mode. The camera is connected to the mount with an electronic shutter release cable for automatic camera control. Electronic shutter release cable supplied, compatible with Canon EOS digital 1100D/1000D/600D/550D/500D/450D/400D/350D/60D models, but cables for other camera makes/models are readily available (see table below). Parameters are entered into the Synscan™ handset and the mount can then start taking panoramic photos in three different modes; Easy Pano Mode, Preset Pano Mode and Time Lapse Mode. Even full 360° panoramas are possible incorporating everything from the Zenith to the Nadir!!



Product Code: 50987

Camera not included



Allview™ Mount  
with Video Camera  
(Not Included)

### VIDEO COURSING & TIME LAPSE MODE

In Video Coursing mode, the mount allows you to capture up to 10 hours of video between two user-determined points. The slewing speed is automatically determined by the time the user decides to slew between those points. Similarly, in Time Lapse mode the user can choose a starting and finishing point, and a slewing time up to 10 hours between those points. This feature allows the user to capture a series of still images (up to 65,535) during the slew, and using suitable image processing software, the images can be merged to create time lapse video.

**Specifications (general):** • Mount type: Alt-Azimuth with dual-encoders • Overall weight with tripod: 9.5kg • Payload capacity: 5kg • Tracking Mode: Dual-Axis • Quick release clutches for manual override • Power requirement: 8V to 15V DC 1Amp (Tip positive). Skywatcher power tank recommended or 10 x AA alkaline batteries (not supplied) • Motor type: DC Servo Motors • Handset: Backlit LCD Screen, two-line 16 character display • Bluetooth-to-serial adaptor compatible, for wireless control via PC • Multi-Function L-type mounting bracket • Tripod supplied: stainless steel (extendable) • Allview head can be detached and fitted to most Prosumer tripods via 3/8" thread

**Specifications (photo/video):** • Panoramic photo modes: Easy Pano Mode, Preset Pano Mode & Time Lapse Mode • Electronic shutter release cable: Canon C1 cable supplied (other cables readily available) • Video Coursing mode: Up to 10 hours video capture between two points

**Specifications (astronomical):** • Tracking Rates: Sidereal, Lunar & Solar • Alignment Method: Brightest Star & Two-star • Slew Speeds: 1x, 2x, 8x, 16x, 32x, 200x, 400x, 600x, 800x & 1000x • Go-to Pointing Accuracy: Up to 5 arc minutes, with Pointing Accuracy Enhancement Function (PAE) • Handset Database: 42,900 objects including complete Solar System, M, NGC, IC & SAO catalogues



## CAR WINDOW/ FENCE MOUNT

Product Code: 50341



## DELUXE MICRO-ADJUSTABLE TABLETOP TRIPOD

- Standard 1/4-20 Tripod Connector
- Height Adjustable Centre Column
- Micro-Elevation Adjustment

Product Code: 20365



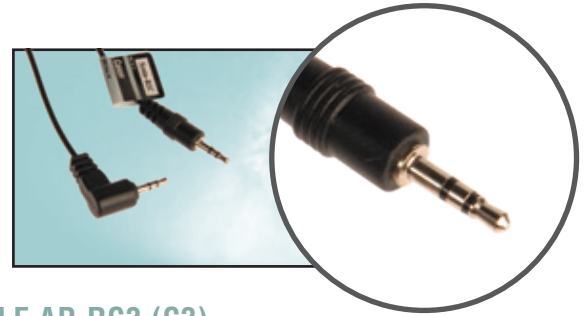
## SKY-WATCHER ELECTRONIC SHUTTER RELEASE CABLES

For use with all Sky-Watcher mountings with a 2.5mm shutter release SNAP port. Please note, as new camera models are always being released, if your camera model isn't listed below, please check with your camera manufacturer/supplier if your camera shares the same type of shutter release connector as a model listed below in order to select the correct cable.

### SHUTTER RELEASE CABLE R1C (C1)

For Canon EOS 1000D/1100D/60D/350D/400D/450D/500D/550D/600D/650D etc.

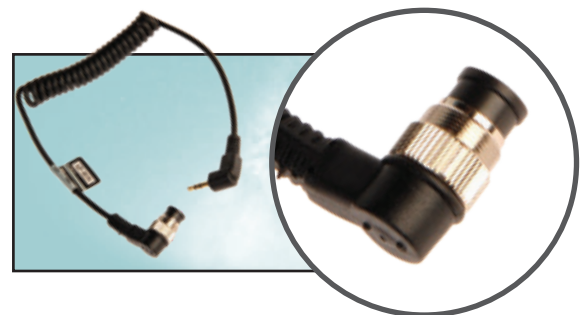
Product Code: 50970



### SHUTTER RELEASE CABLE AP-RC3 (C3)

For Canon EOS 7D/20D/30D/40D/50D/1DMKIV/1DS MKIII/5D MKI, II, III/6D etc.

Product Code: 50971



### SHUTTER RELEASE CABLE AP-R1N (N1)

For Nikon D1/D2H/D2X/D2HS/D2Xs/D3/D3S/D3X/D4/D100/D200/D300/D300S/D700/D800. Fujifilm FinePix/S5 PRO/S3 PRO/MZ-L/ZX-L

Product Code: 50972



### SHUTTER RELEASE CABLE AP-R2N (N2)

For Nikon D80/D70S etc.

Product Code: 50973



### SHUTTER RELEASE CABLE AP-R3N (N3)

For Nikon D90/D500/D600/D610/D750/D310/D3200/D5000/D5100/D5200/D5300/D7000/D7100/D7200

Product Code: 50974



### SHUTTER RELEASE CABLE AP-R3L (OPT2)

For Olympus E-P2/E520/E420/E-P1/E510/E410 etc.

Product Code: 50975



### SHUTTER RELEASE CABLE AP-R1S (S1)

For Sony a100/a200/a300/a350/a550/a700/a900. Minolta a7 Digital/aSweet S/a807si/a-9/a-7/Dimage-7Hi/Dimage-7i etc.

Product Code: 50976

## zenith<sup>®</sup> MICROSCOPES SERVING EDUCATION AND SCIENCE FOR OVER 50 YEARS

Zenith microscopes have been supplied to Education, Medicine and industry for over 50 years and during this time they have been held in high regard for the rare combination of quality, performance and value which they offer.



### PM-1 X20 PRIMARY INSPECTION MICROSCOPE

A high quality instrument of robust, reliable metal construction and excellent optical performance. Highly recommended for Primary Science Education and Field Study Centres (officially approved by the Royal Microscopical Society for use in primary schools). Extremely simple to use, the PM-1 is ideal for the examination of everyday objects in fascinating yet understandable detail. The 'anti-tamper' student-proof design includes 'locked-on' eyepiece & stage clips and a slip-clutch on the focus movement. Also an extremely useful routine inspection microscope for use in industrial applications.

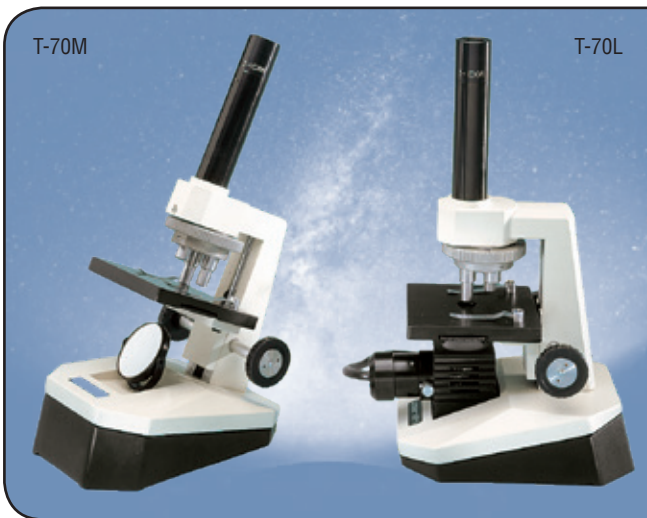
#### Standard Specification:-

- Fixed magnification x20 • x10 widefield eyepiece (locked on) • x2 achromatic objective • Field of view 9.5mm
- Working distance 81mm • Monocular head inclined 45° & rotatable 360° for convenient viewing • Upright/erect image
- Precise, smooth-action Rack & Pinion focusing • Black & White reversible Stage Plate
- With Stage Plate removed the microscope can focus through base aperture to view larger objects
- Complete with Dust Cover
- Supplied in polystyrene pack
- Overall dimensions 145 x 110 x 260mm
- Weight approx 1.2kg

Product Code	Description
60021	PM-1 x20 Primary Inspection Microscope

### T-70 SERIES TEACHING MICROSCOPES

The Zenith T-70 Series are purpose-built School microscopes of good optical quality and particularly robust die-cast construction. Two identical models are available with different illumination systems. Maximum Magnifications of x200 ensure ease of use and makes them ideal instruments for use in Primary, Middle and Lower Secondary Schools. Features an ingenious base design, which when rotated, instantly converts the microscope from vertical to inclined viewing mode. 'Anti-tamper' safety features include 'locked-on' eyepiece & objective lenses, locked-on stage clips, slip-clutch on the focus movement to prevent over-focusing and focus-stop to prevent damage to glass microslides and objective lenses.



#### Standard Specifications:-

**T-70M Teaching Microscope:** Illumination via Plano-Concave Mirror

**T-70L Teaching Microscope:** With 'Locked-On' 230v 6w Substage illuminator

#### General Features (both models):-

- Magnification range x40, x100, x200
- x10 Widefield Eyepiece with Pointer
- Achromatic Objectives x4, x10, x20R (R = retractable)
- Rotating 5-Hole Disc Diaphragm
- Single, precise smooth-action Focus Control for easy focusing
- Overall dimensions 160 x 120 x 290mm
- Stage measures 92 x 92mm
- Triple Objective Turret
- Complete with Dust Cover
- Supplied in polystyrene pack
- Weight approx 1.5kg

Product Code	Description
60002	T-70M Teaching Microscope
60003	T-70L Teaching Microscope
60221	SB-6 Replacement 230v 6w Bulb



### P-6A STUDENT MICROSCOPE

Another purpose built student microscope, featuring both coarse and fine focusing mechanisms. 'Anti-tamper' safety features include 'locked-on' eyepiece and stage clips, slip-clutch on the focusing movements to prevent over-focusing and a focus-stop to prevent damage to glass microslides and objective lenses. Recommended for secondary school biology studies.

#### Standard Specification:-

- Magnification range x40, x100, x400
- x10 Widefield Eyepiece with Pointer
- Parfocal Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- Stage Condenser (N.A. 0.65)
- Rotating 6-Hole Disc Diaphragm
- Separate smooth-action coarse & fine focusing controls
- Rack & Pinion focusing • Triple Objective Turret
- Plano-concave Mirror
- Supplied in polystyrene pack with Dust Cover
- Overall dimensions 195 x 120 x 360mm
- Weight approx 2.3kg

Product Code	Description
60005	P-6A Student Microscope
Accessories	
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 Huyghenian Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60166	ME-10S x10 Widefield Measuring Eyepiece
60116	SM-1 1mm Stage Micrometer (100x0.01mm Divisions)



## SCHOLARIS-400 DUAL LED BIOLOGICAL/INSPECTION MICROSCOPE

The Scholaris-400 is a wonderfully versatile and easy to use instrument, providing a perfect platform to start discovering the fascinating wonders of the micro-world! Elegantly designed and robustly constructed, the Scholaris-400 makes an ideal beginners microscope. Featuring dual-LED illumination (transmitted and incident) for the examination of a wide variety of specimens. The substage transmitted illumination allows the examination of prepared microscope slides and transparent specimens at 40x, 100x & 400x magnifications, whilst the incident illumination allows opaque objects (e.g. coins, whole insects etc.) to be observed at 40x & x100. Supplied with an accessory kit, including 5 x prepared slides, 5 x plain slides, cover slips, test tube, pipette, probe and tweezers. Requires 3 x AA batteries (not supplied). A perfect gift!

### Standard Specification:-

- Magnification range: x40, x100, x400 • x10 Widefield Eyepiece • Parfocal Achromatic Objectives: x4, x10, x40
- Separate Incident and Transmitted LED Illumination • Rotating 6-Hole Disc Diaphragm
- Locked-on Stage Clips
- Single-Speed Focusing Control Knobs
- Dust Cover
- Overall Dimensions 160x118x300 mm
- Weight Approx 800g
- Supplied in Gift Box

Product Code	Description
60045	Scholaris-400 LED Biological/ Inspection Microscope
Accessory	
60236	Replacement LED Bulb



### INCIDENT (TOP) ILLUMINATION

Allows opaque objects to be observed



### TRANSMITTED SUBSTAGE ILLUMINATION

Allows prepared microscope slides to be observed



### ACCESSORY KIT SUPPLIED

Includes 5 x prepared slides, 5 x plain slides, cover slips, test tube, pipette, probe and tweezers.



## ZENITH MICROSCOPE SLIDE SETS

We offer a range of sets containing 100, 50 or 25 prepared slides. Each set includes a selection of various interesting botanical, zoological, aquatic and insect specimens. **Please check full content details on our website [www.opticalvision.co.uk](http://www.opticalvision.co.uk)**

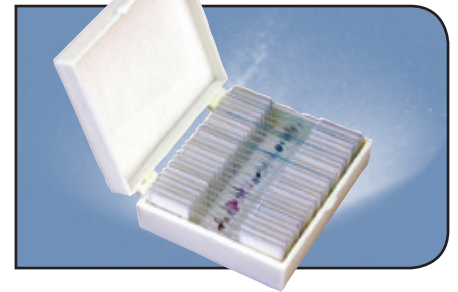
### 100pc Microscope Slide Set

Supplied in wooden box  
Product Code: 60124



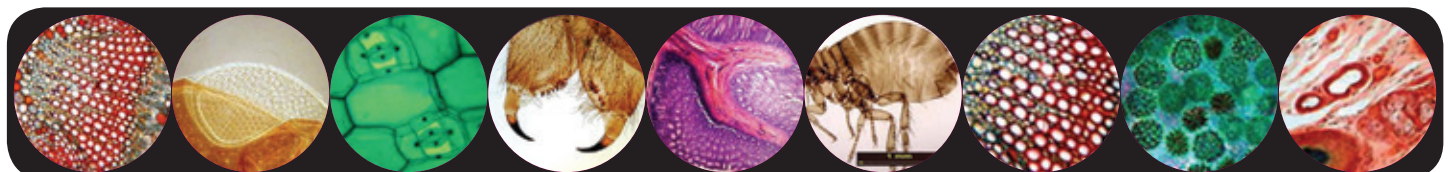
### 50pc Microscope Slide Set

Supplied in wooden box  
Product Code: 60125



### 25pc Microscope Slide Set

Supplied in plastic box  
Product Code: 60126



Supplied slides may vary from images shown



## ULTRA-400 SERIES ADVANCED STUDENT MICROSCOPES

Ideal for secondary school and college biology studies. The Zenith Ultra-400 V.2 Series are purpose built teaching instruments finished to a very high standard, combining excellent optical performance and a very reliable, modern, user-friendly design with a mechanical construction designed to withstand the rigours of everyday heavy classroom use. All models feature high quality DIN standard optics, 'Anti-tamper' safety features include locked-on eyepiece and stage clips, slip-clutch on the coarse focus movement to prevent over-focusing and an adjustable focus-stop to prevent damage to glass microslides and objective lenses.

### Highly Recommended

#### ULTRA-400M

##### Standard Specification:-

- Magnification range x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40 (0.65) (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- Stage Condenser (N.A. 0.65)
- Rotating 5-Hole Disc Diaphragm
- Triple Objective Turret
- Illumination via Plano-concave Mirror

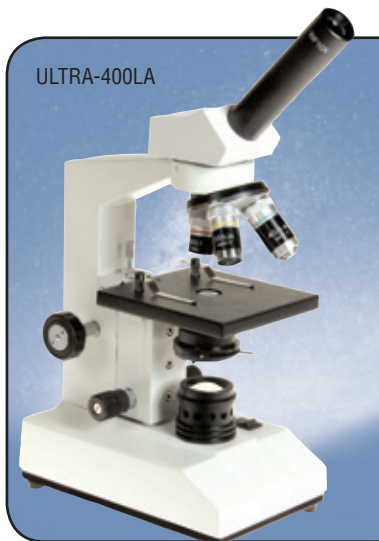
Product Code	Description
60035	Ultra-400M Advanced Student Microscope

#### ULTRA-400L

##### Standard Specification:-

- Magnification range x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- Stage Condenser (N.A. 0.65)
- Triple Objective Turret
- Rotating 5-Hole Disc Diaphragm
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Product Code	Description
60032	Ultra-400L Advanced Student Microscope



#### ULTRA-400LA

##### Standard Specification:-

- Magnification range x40, x100, x400, (x1000 magnification achievable by upgrading with optional x100R (1.25) oil immersion objective)
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65) (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in Spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret (for extra objective)
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Product Code	Description
60033	Ultra-400LA Advanced Student Microscope



#### ULTRA-400LX

##### Standard Specification:-

- Magnification range x40, x100, x400, x1000
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) oil immersion (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in Spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Product Code	ACCESSORIES FOR ULTRA-400 SERIES Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 Huyghenian Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60156	WF-10S x10 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60186	OM-100 x100R (1.25) Oil DIN Objective*
60107	CT-11 Attachable Mechanical Stage
60116	SM-1 1mm Stage Micrometer (100x0.01mm Divs)
60227	SB-20 Replacement 240v 20w Bulb

\* Accessory for Ultra-400LA only

Product Code	Description
60034	Ultra-400LX Advanced Student Microscope

### General Features (all models):-

- Separate smooth action Coarse & Fine Focusing controls
- Monocular Head inclined 45° and rotatable through 360° for convenient viewing and a permanently horizontal Stage
- Rack & Pinion focusing • Solid Brass Coarse Focus Dovetail Slide • Stage measures 120 x 114mm
- Supplied in Polystyrene Pack with Dust Cover • Overall dimensions 200 x 125 x 360mm • Weight Approx 3.1kg





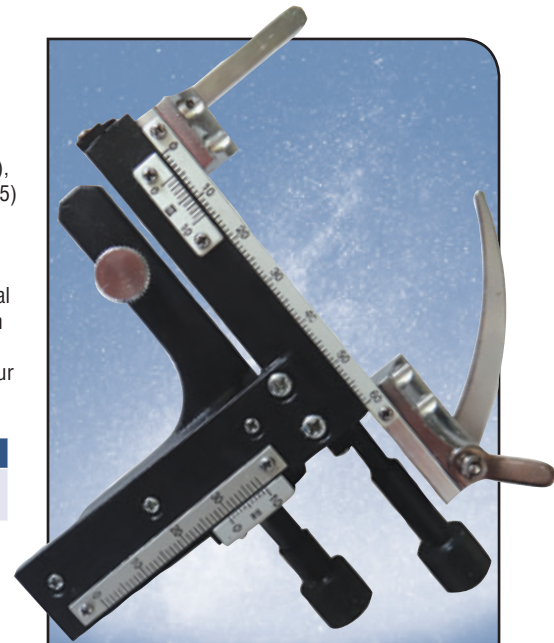
ULTRA-400BLX

## ULTRA-400BLX

### Standard Specification:-

- Magnification range x40, x100, x400, x1000
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) oil immersion (R = retractable)
- x10 Widefield Eyepiece with Pointer (18mm field)
- ABBE Condenser (N.A. 1.25) in Spiral Focusing Mount with Iris Diaphragm
- Quadruple Objective Turret
- Built-in 230v 20w illumination (colour corrected with daylight blue filter)

Product Code	Description
60036	Ultra-400BLX Advanced Student Microscope



## CT-11 MECHANICAL STAGE

Product Code: 60107

## LUMAX SERIES ADVANCED STUDENT CORDLESS LED MICROSCOPES

Ideal for secondary school biology studies, this series of cordless microscopes incorporates innovative LED illumination technology into a proven microscope design, which features all the essential 'Anti-Tamper' features demanded by heavy school use. The microscope features a powerful rechargeable battery, located in the base, which is charged in situ with the included mains power adaptor. Charging time is typically 5-6 hours and when fully charged, the continuous discharge time is more than 50 hours. Under normal use, the LED bulb can last for more than 10,000 hours. The level of illumination is suitable even for high-power oil immersion work at x1000.

Product Code	Description
60012	Lumax-1 Rechargeable LED Microscope
60013	Lumax-2 Rechargeable LED Microscope



LUMAX-2



LUMAX-1

## LUMAX-1

- Magnification range: x40, x100, x400
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65)
- x10 Widefield eyepiece (with pointer)
- Stage Condenser (N.A. 0.65) with Rotating 5-hole disc diaphragm
- Triple Objective Turret

### General features (Both Models)

- 9v 20w adjustable LED Illumination
- Built-In 9v Rechargeable Battery
- Supplied with 230v 9w Battery Charger
- Separate Coarse and Fine Focusing
- Rack and Pinion Focusing
- Monocular Head Rotatable 360°
- 'Locked-On' Eyepiece and Stage Clips
- Slip-clutch on Focusing Mechanisms
- Height 360mm / Weight 3 kg

## LUMAX-2

- Magnification range: x40, x100, x400, (x1000 possible with optional x100R Oil objective available separately)
- DIN Achromatic Objectives x4 (0.10), x10 (0.25), x40R (0.65)
- x10 Widefield eyepiece (with pointer)
- ABBE Condenser (N.A. 1.25) with Iris Diaphragm
- Quadruple Objective Turret

Product Code	ACCESSORIES FOR LUMAX SERIES Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 DIN Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60156	WF-10S x10 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60186	OM-100 100R (1.25) Oil Immersion Objective (for Lumax-2)
60116	SM-1 1mm Stage Micrometer (100x0.01mm Divisions)
60107	CT-11 Attachable Mechanical Stage



## ZENITH MICROLAB-1000 SERIES LABORATORY MICROSCOPES

Full sized laboratory standard instruments of modern ergonomic design, robust reliable construction and high optical performance. Ideal for use in schools, colleges and professional laboratories over a wide range of biological, medical, veterinary, bacteriological and agricultural applications. Four models are available, sharing a common stand, but with a choice of viewing heads and objective lenses.

### MICROLAB-1000M MONOCULAR LABORATORY MICROSCOPE

Supplied with Monocular Head and Achromatic Objectives

#### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepiece, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil • Monocular Viewing Head, rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece
- Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover • Dimensions 215x170x360mm • Weight 6kg

Product Code	Description
60040	Microlab-1000M Monocular Laboratory Microscope



### MICROLAB-1000B BINOCULAR LABORATORY MICROSCOPE

Supplied with Sliding Binocular Head and Achromatic Objectives

#### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), X100R (1.25) Oil • Binocular Head (sliding type), rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece
- Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover • Dimensions 215x170x360mm • Weight 6.5kg

Product Code	Description
60041	Microlab-1000B Binocular Laboratory Microscope

### BVH-1 DIGITAL BINOCULAR HEAD WITH BUILT-IN 1.3MP CMOS CAMERA

Supplied with USB Cable and ScopelImagePlus™ Software (to upgrade Microlab-1000M/B/BSP)



Product Code	ACCESSORIES FOR MICROLAB-1000 SERIES Description
60155	WF-5 x5 DIN Eyepiece
60153	H-7 x7 DIN Huyghenian Eyepiece
60151	AM-16 x16 DIN Widefield Eyepiece
60166	ME-10S x10 DIN Widefield Measuring Eyepiece
60116	SM-1 1mm Stage Micrometer (100 x 0.01mm Divisions)
60188	PL-4 x4 DIN Planachromatic Objective
60189	PL-10 x10 DIN Planachromatic Objective
60190	PL-25 x25 DIN Planachromatic Objective
60191	PL-40 x40R DIN Planachromatic Objective
60192	PL-100 x100R (Oil) DIN Planachromatic Objective
60122	PL-100DF x100R (Oil) DIN Dark Field Planachromatic Objective with Iris Diaphragm (use with DF-3)
60120	DF-2 Dark Field Condenser (Dry, N.A. 0.7-0.9)
60121	DF-3 Dark Field Condenser (Oil Immersion, N.A. 1.25-1.36)
60123	BVH-1 Digital Binocular Head (Sliding Type) with Built-in 1.3MP CMOS Camera, supplied with USB Cable and ScopelImagePlus™ Software (to upgrade Microlab-1000M/B/BSP)
60119	PA-6 Polariser & Analyser
60229	SB-25 Replacement 6v 20w Halogen Bulb





## MICROLAB-1000BSP BINOCULAR LABORATORY RESEARCH MICROSCOPE

Supplied with Seidentopf Binocular Head and Planachromatic Flat-Field Objectives

### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Planachromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil
- Seidentopf Binocular Head, rotatable 360°
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop
- Quadruple nosepiece
- Smooth x-y mechanical stage with co-axial drop-down controls.
- Dust Cover
- Dimensions 215x170x360mm • Weight 6.5kg

Product Code	Description
60042	Microlab-1000BSP Binocular Laboratory Research Microscope

## MICROLAB-1000BD 'DIGITAL' BINOCULAR LABORATORY MICROSCOPE DISPLAY AND CAPTURE LIVE IMAGES DIRECTLY TO YOUR PC!!

Full-sized laboratory standard instrument incorporating a 1.3MP (1280x1024 pixels) built-in CMOS digital camera. Display and capture live images directly to your PC with ease, via a USB 2.0 cable using user-friendly ScopelImagePlus™ application software. The camera can be connected and disconnected freely, and when the camera is not in use, the instrument operates like a conventional microscope. Supplied with Achromatic Objectives.



Product Code	Description
60031	Microlab-1000BD Digital Binocular Laboratory Microscope

### Standard Specification:

- Magnification x40-x1000 (x1600 achievable by using optional x16 eyepieces)
- Paired x10 DIN standard high eyepoint widefield eyepieces, field 18mm
- DIN standard, parfocal, parcentred Achromatic objectives x4 (0.10), x10 (0.25), x40R (0.65), x100R (1.25) Oil • BVH-1 Binocular Head (sliding type) with Built-in 1.3MP CMOS Camera
- Built-in 230v, 6v 20w halogen illumination with variable brightness control
- Additionally supplied with Plano-Concave Mirror in Mount for Field Work
- Bright field ABBE condenser (N.A. 1.25) with iris diaphragm and filter carrier
- Fully focusing rack & pinion substage • Smooth x-y mechanical stage with co-axial drop-down controls
- Co-axial coarse and fine focusing with indexed scale and adjustable focus-tension
- Adjustable focus-stop • Quadruple nosepiece • Windows XP/VISTA/7/8/10 compatible software
- USB 2.0 Output, cable supplied • Dust cover • Dimensions 215x170x360mm • Weight 6.5kg

### DF-2 DARK FIELD CONDENSER

(DRY, N.A. 0.7-0.9) Can be used with all Microlab-1000 models using the standard Achromatic or Planachromatic x4, x10 and x40 objectives supplied.



### DF-3 DARK FIELD CONDENSER

(OIL IMMERSION, N.A. 1.25-1.36) Can be used with all Microlab-1000 models using the standard achromatic or planachromatic x100 Oil Immersion objective supplied.



### PL-100DF DARK FIELD PLANACHROMATIC OBJECTIVE WITH IRIS DIAPHRAGM

Can only be used in conjunction with the DF-3 Oil Immersion Dark Field Condenser and gives optimum dark field performance for high magnification oil immersion study



Product Code:  
60120

Product Code:  
60121

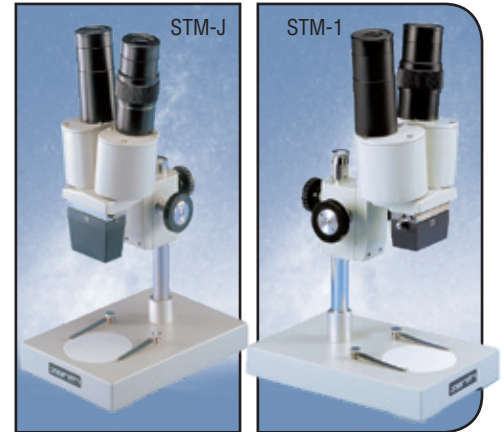
Product Code: 60122

## STM-J x10 STEREOSCOPIC MICROSCOPE

A robust, reliable, easy-to-operate instrument of high optical quality. Its relatively low magnification, easy focusing & wide field of view makes it a useful educational tool for use in primary schools and field study centres, as well as having numerous applications in industry.

### Standard Specification:-

- Fixed Magnification x10 • Paired x10 Widefield Eyepieces (Locked-on) with Rubber Eyecups
- Achromatic Objective Pair x1 • Field of View 20mm • Working Distance 60mm • Dioptic adjustment provided on left eyepiece tube • Stereo Head Height adjustable on column to accommodate specimens of varying sizes
- Rack and Pinion focusing • Adjustable Inter-Pupillary Distance • Black / White Reversible Stage Plate
- With Stage Plate removed, the microscope can be used to examine specimens too large to put under the microscope in the conventional way by focusing through the aperture in the Base Plate • Locked-on Stage Clips
- Dust Cover • Supplied In polystyrene pack • Height approx 300mm • Weight approx 1.45kg



Product Code	Description
60022	STM-J x10 Stereoscopic Microscope
60023	STM-1 x20 Stereoscopic Microscope

## STM-J x10 STEREOSCOPIC MICROSCOPE

A robust, reliable, easy-to-operate instrument of high optical quality. Its relatively low magnification, easy focusing & wide field of view makes it a useful educational tool for use in primary schools and field study centres, as well as having numerous applications in industry.

### Standard Specification:-

- Fixed Magnification x10 • Paired x10 Widefield Eyepieces (Locked-on) with Rubber Eyecups
- Achromatic Objective Pair x1 • Field of View 20mm • Working Distance 60mm • Dioptic adjustment provided on left eyepiece tube • Stereo Head Height adjustable on column to accommodate specimens of varying sizes
- Rack and Pinion focusing • Adjustable Inter-Pupillary Distance • Black / White Reversible Stage Plate
- With Stage Plate removed, the microscope can be used to examine specimens too large to put under the microscope in the conventional way by focusing through the aperture in the Base Plate • Locked-on Stage Clips
- Dust Cover • Supplied In polystyrene pack • Height approx 300mm • Weight approx 1.45kg

## STM-30 & STM-40 ILLUMINATED STEREOSCOPIC MICROSCOPES

Versatile instruments of robust metal construction and excellent optical performance ideal for use in Schools, Colleges & Field Study Centres as well as having wide applications in Industry. 'Anti-tamper' safety features include locked-on eyepieces and stage clips and a slip-clutch on the focus movement. Two models are available, each offering its own choice of magnifications and illumination systems:-



### MODEL: STM-30

- Dual magnification x10 & x30 • x10 widefield eyepieces (with rubber eyecups)
- Parfocal achromatic objective pairs x1 & x3 on revolving turret • 12v 10w top illumination
- Working distance 50mm • Field of view 5-15mm • Black/White Reversible Stage Plate
- Binocular head inclined 45° for comfortable viewing • Full inter-pupillary and dioptic adjustment provided
- Rack & Pinion focusing • Dust Cover
- Supplied in polystyrene pack
- Overall dimensions 170 x 115 x 300mm
- Weight approx 2.5kg

Product Code	Description
60024	STM-30 x10 / x30 Stereoscopic Microscope
60025	STM-40 x20 / x40 Stereoscopic Microscope
Accessories	
60152	EP-15 x15 Widefield Eyepiece (2 req'd)
60222	SB-10 Replacement 12v 10w Bulb

### MODEL: STM-40

- Dual magnification x20 & x40
- x10 widefield eyepieces (with rubber eyecups)
- Parfocal achromatic objective pairs x2 & x4 on revolving turret
- 12v 10w top & bottom illumination (independent or simultaneous)
- Working distance 45mm • Black/White Reversible and Frosted Glass Stage Plates provided
- Field of view 5-10mm • Binocular head inclined 45° for comfortable viewing
- Full inter-pupillary and dioptic adjustment provided • Rack & Pinion focusing • Dust Cover
- Supplied in polystyrene pack • Overall dimensions 190 x 117 x 310mm • Weight approx 2.8kg

## STL-80 x10 / x20 LONG ARM STEREOSCOPIC MICROSCOPE

A very useful and versatile instrument for use throughout Education and Industry. Features 12v 10w illumination and two magnifications of x10 & x20 as standard. The long boom arm is adjustable to vary the viewing angle of the stereoscopic head. The heavy microscope base ensures stability. The long working distance of 231mm and a field of view of 20mm make it ideal for operations such as dissection and fine assembly work.

### Standard Specification:-

- Magnification x 10 & x20 • Paired x10 & x20 Widefield Eyepieces • Achromatic Objective Pair x1
- Working Distance 231mm • Field Of View 20mm • Binocular Head inclined 45° for comfortable viewing
- Full interpupillary & dioptic adjustment provided • 230v / 12v 10w Halogen Illumination
- Boom arm can be raised on its pillar to accommodate specimens of varying sizes
- Rack & Pinion focusing
- Supplied in polystyrene pack
- Overall dimensions 390 x 130 x 390mm
- Weight approx 6kg

Product Code	Description
60026	STL-80 x10 / x20 Long Arm Stereo Microscope
Accessories	
60152	EP-15 x15 Widefield Eyepiece (2 req'd)
60181	OG-1 x0.5 Objective Pair
60226	SB-12T Replacement 12v 10w Tungsten Bulb





## ST-400 x20/x40/x50/x100 ADVANCED STEREOSCOPIC MICROSCOPE

The ST-400 is a versatile, full-sized stereoscopic microscope of sturdy construction, offering excellent optical performance and reliable mechanical operation. Supplied with two pairs of eyepieces (x10 & x25) and two objective pairs (x2 & x4) on a revolving turret. Four magnifications (x20, x40, x50 & x100) are available with the standard optics supplied, but more magnifications are achievable with the optional eyepieces and supplementary lenses available separately. The microscope features a dual-illumination system comprising halogen top-lighting (incident) and fluorescent substage illumination (transmitted).

### Standard Specification:

- Magnification Range: x20, x40, x50, x100 • Magnifications of x10-x200 possible with optional accessories
- Eyepieces supplied: x10 & x25 Widefield Pairs • Achromatic Objectives Supplied: x2 & x4 Pairs on revolving turret
- Working Distance: 105mm • Field of View: 10mm (20x), 8mm (40x), 5mm (50x), 3mm (100x)
- Incident Illumination: 6v 15w Halogen / Transmitted Illumination 230v 5w • Focusing Mechanism: Rack and Pinion
- Interchangeable Glass and Black & White stage plates • Approx Weight: 4.5kg / Maximum Height 390mm

Product Code	Description
60027	ST-400 Stereoscopic Microscope
Accessories	
60161	ST-15X x15 Widefield Eyepiece
60162	ST-20X x20 Widefield Eyepiece
60197	SL-6 x0.5 Supplementary Objective
60198	SL-7 x2 Supplementary Objective
60231	SB-15 Replacement 6v15w Halogen Bulb
60232	SB-5 Replacement 230v5w Fluorescent Bulb



## STZ-3500 & STZ-4500 x7-x45 ZOOM STEREOSCOPIC MICROSCOPES

High performance full sized professional zoom stereo microscopes ideal for use over a wide range of Industrial, Medical & Educational applications. Features x7-x45 continuous zoom facility providing delightfully sharp, crisp, upright stereoscopic images. The magnification can be increased up to x180 with addition of the optional eyepieces and supplementary objectives that are available. Two identical models are available with the choice of either binocular or trinocular viewing heads.

### Standard Specification:-

- Magnification range x7- x45 (Magnifications from x3.5 - x180 achievable by upgrading with the optional eyepieces and supplementary objective lenses listed below)
- Paired Widefield Eyepieces x10
- Zoom objective magnification ratio x0.7 - x4.5 • Binocular Head (STZ-3500 model) / Trinocular Head (STZ-4500 model)
- Working Distance 95mm
- Field Of View 4.4 - 28.6mm
- 230v / 12v 10w Halogen Incident Illumination (positionable)
- 230v / 12v 10w Halogen Transmitted Illumination
- Binocular Head inclined 45°, rotatable 360°
- Full interpupillary & dioptic adjustment provided • Rack & Pinion focussing
- Stereo Head height adjustable on pillar to accommodate specimens of varying sizes
- Complete with Dust Cover
- Overall dimensions 250 x 160 x 410mm
- Weight approx 6.5kg



Product Code	Description
60028	STZ-3500 Binocular Zoom Stereo Microscope
60029	STZ-4500 Trinocular Zoom Stereo Microscope
Accessories	
60158	WF-15 x15 Widefield Eyepiece (2 req'd)
60160	WF-20 x20 Widefield Eyepiece (2 req'd)
60193	SL-1 x0.5 Supplementary Objective
60194	SL-2 x0.75 Supplementary Objective
60195	SL-3 x1.5 Supplementary Objective
60196	SL-4 x2 Supplementary Objective
60106	CA-8 SLR Camera Adaptor
60114	VA-4TV CCTV Adaptor*
60223	SB-10H Spare 12v 10w Halogen Bulb (transmitted)
60224	SB-10HR Spare 12v 10w Halogen Reflector Bulb (Incident)

\* For STZ-4500 only

## SPRITE



Fully Multi-Coated  
Bak-4 Prisms  
Waterproof  
Close Focus (10x50): 2.5m  
F.O.V. (10x50): 101m@1000m  
Weight: 158g (8x25), 420g (10x50)

**Models:**  
8x25, 10x25, 10x50, 20x50

*"Overall I was very impressed by both the clarity and brightness of the image produced." (10x50 Model)* [www.bestbinocularreviews.com](http://www.bestbinocularreviews.com)

## SAHARA



Fully Multi-Coated  
Bak-4 Prisms  
Waterproof  
Close Focus (8x42): 2m  
F.O.V. (8x42): 129m@1000m  
Weight (8x42): 670g

**Binoculars:**  
8x25, 10x25, 8x32, 10x32, 8x42, 10x42, 10x50, 12x50  
**Spotting scopes:** 15-45x60, 20-60x70, 20-60x80

*"..astoundingly good value given the design features incorporated and the resultant image delivered – especially by the 8x42mm model." Birdwatch Magazine*

## SIERRA



Fully Multi-Coated  
Phase Coated Bak-4 Prisms  
Waterproof  
Close Focus (8x42): 2m  
F.O.V. (8x42): 129m@1000m  
Weight (8x42): 650g

**Models:**  
8x32, 10x32, 8x42, 10x42, 10x50, 12x50

*"These compact, comfortable-to-use (8x42) binoculars give impressively sharp, bright views at a very affordable price." Birdwatching Magazine*

## SERIES 4



Fully Multi-Coated  
Phase Coated Bak-4 Prisms  
Waterproof  
Close Focus (8x42/8x42ED models): 4.5m/2m  
F.O.V. (8x42/8x42ED models): 114m/119m@1000m  
Weight (8x42): 726g

**Models:**  
8x42, 10x42, 8x42ED, 10x42ED

*"The view through the 8x42 Series 4 ED binoculars is very, very good... I would say that they are excellent value for money and are ideal birding or general use binoculars." www.bestbinocularreviews.com*

## SAVANNAH



Fully Multi-Coated  
Phase Coated Bak-4 Prisms  
Waterproof  
Close Focus (8x42 models): 2m  
F.O.V. (8x42 models): 143m@1000m  
Weight (8x42 models): 819g

**Models:**  
8x42, 10x42, 8x56, 10x56, 12x56  
8x56ED, 10x56ED, 12x56ED

*"All told, with binoculars like the Savannah (8x42), Barr & Stroud can continue to justly feel proud of the fine heritage in the world of optics." www.bestbinocularreviews.com*

## SERIES 5



Fully Multi-Coated  
Phase Coated Bak-4 Prisms  
Waterproof  
Close Focus (8x42 models): 2m  
F.O.V. (8x42 models): 142m@1000m  
Weight (8x42 models): 716g

**Models:**  
8x42, 10x42, 8x42ED, 10x42ED

*Series 5 premium features include water-repellent objective lens coating as well as magnesium alloy body construction.*

Discover the Range of B&S Precision Optics at [www.barrandstroud.com](http://www.barrandstroud.com)



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