



EVOS®

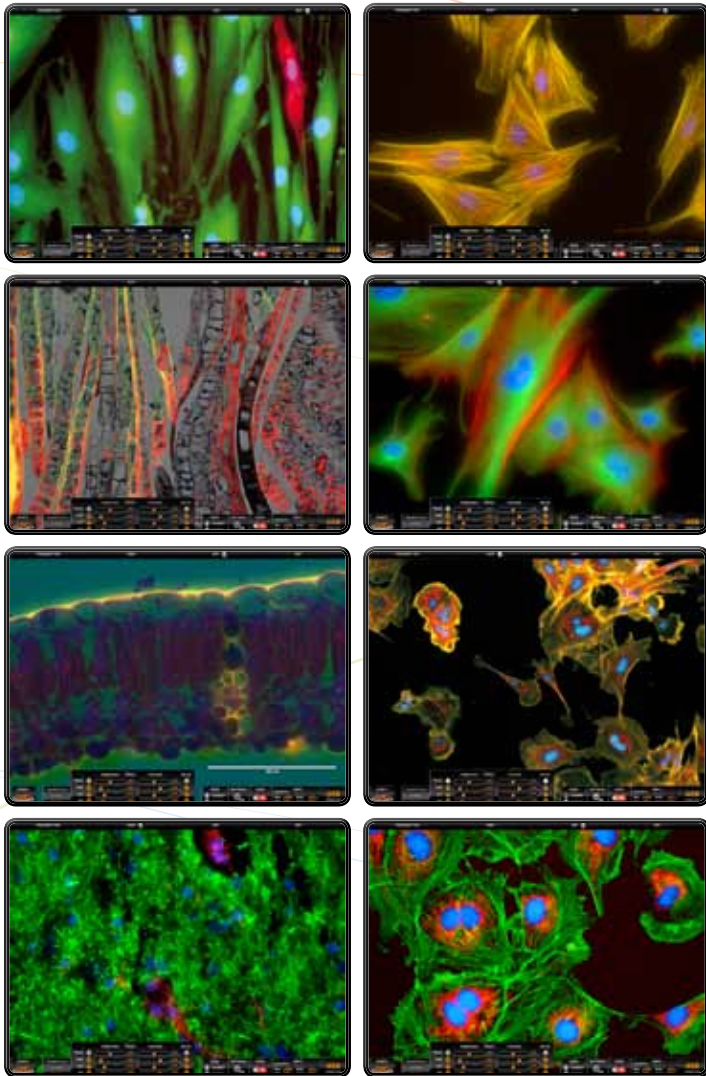
ALL-IN-ONE
digital inverted microscope

High-quality Imaging
Has Never Been Easier



Fluorescence Imaging Is Now Easier Than Ever

- ALL-IN-ONE, digital inverted fluorescence microscope
- The easiest system to setup and operate in the world - there is nothing else like it
- LED illumination and fully integrated hardware/software removes the complexity and headaches of traditional fluorescence imaging
- No bulbs, no alignment and no on-going costs
- Compact and portable - can be used in a hood or anywhere in the lab (no dark room required)
- Mercury-free LED illumination and 15X less power consumption than traditional systems
- No adjustments, no calibrations, no maintenance required
- Works for both slides and live cells



***Your science is hard;
your microscope should be easy...***

We took 200 years of microscope engineering... and started over. Science needs tools that help set the pace, not hold it back. Isn't it time the equipment works for *you* - so you can get your data quickly and move on?

The ground-breaking design and revolutionary performance features of the **EVOS fl** microscope make high-quality fluorescence imaging easier than ever. **Capture, overlay** and **save** multi-channel fluorescence images in just seconds - in one place, with one instrument.

It will change the way you work!

Technical specifications

EVOS xl (transmitted light microscope)

EVOS fl (fluorescence microscope)

Optics

Infinity-corrected optical system; RMS-threaded objectives with 45 mm parfocal distance

Objectives*

**Table includes common objective sets. Contact your sales representative for a complete list of available objectives.*

EVOS xl			EVOS fl		
2X	0.06	5.1 mm	2X	0.06	5.1 mm
4X Ph	0.13	16.9 mm	4X Ph	0.13	16.9 mm
10X Ph	0.25	6.9 mm	10X Ph	0.30	8.3 mm
20X Ph	0.40	6.8 mm	20X FI	0.45	7.1 mm
40X Ph	0.65	3.1 mm	40X FI	0.65	1.6 mm

Objective turret

5-position; front-mounted manual control

EVOS fl Light Cubes*

**Table includes commonly used light cubes. Contact your sales representative for a complete list of available light cubes.*

DAPI:	357 nm excitation	447 nm emission
GFP:	470 nm excitation	525 nm emission
RFP:	531 nm excitation	593 nm emission
CFP:	442 nm excitation	510 nm emission
YFP:	500 nm excitation	542 nm emission
Texas Red:	585 nm excitation	624 nm emission
Cy5:	628 nm excitation	692 nm emission
Cy7:	731 nm excitation	825 nm emission
QDots:	All available wavelengths	

Illumination

LED (50,000+ hour life); adjustable intensity

Contrast methods

EVOS xl Transmitted light (brightfield and phase contrast)

EVOS fl Fluorescence and transmitted light (brightfield and phase contrast)

Condenser

4-position turret for brightfield and phase contrast, slider with diffuser block and meniscus filters

Condenser working distance

53 mm

Mechanical "Glide" stage

- › X-Y axis fine-positioning controls; 69 mm (2.7-in) per rotation; 110 mm x 110 mm (4.3-in x 4.3-in) range of motion
- › Z-axis focusing controls, 480 µm/rotation
- › Interchangeable vessel holders available for most common shapes and sizes*

LCD display

15-inch color, 1024 x 768 pixels; adjustable tilt

Camera

EVOS xl 2048 x 1536, 3.2 µm/pixel; 3.1 MP COLOR

EVOS fl High-sensitivity monochrome, 1360 x 1024, 6.45 µm/pixel; (Sony® ICX285AL CCD)
Also available with color camera (Sony® ICX285AQ CCD)

Image acquisition

Built-in computer; Intel® Atom processor 1.6 GHz; integrated software for image acquisition via mouse

Captured images

EVOS xl Color TIFF, PNG, JPG or BMP (2048 x 1536 pixels)

EVOS fl 16-bit monochrome TIFF or PNG (12-bit dynamic range) 24-bit color TIFF or PNG; JPG, BMP

Output ports

3 USB and 1 DVI

Power supply

AC adapter; input 100–240V, 50–60Hz; output 5 VDC/4.15A

Dimensions

Operating height: 57.8 cm (22.75-in)
Storage/transport height: 32.4 cm (12.75-in)
Depth: 47.0 cm (18.5-in)
Width: 35.5 cm (14.0-in)

Weight

EVOS xl 14.2 kg (31.4 lbs)

EVOS fl 15.3 kg (33.7 lbs)

**For a complete list of phase, fluorite, and phase/fluorite objectives, LED light cubes, vessel holders, and stage plates, please contact your local sales representative or visit www.amgmicro.com.*

"I never would have believed that high-quality fluorescence microscopy could be this easy!"



EVOS® lineup



EVOS fl

- Fluorescence, brightfield, phase contrast
- Patented LED fluorescence light cube technology
- Supports up to 4 fluorescence channels at a time
- 15-inch high-resolution LCD display
- Monochrome and color camera options
- Fits inside cell culture hoods and biosafety cabinets
- Integrated computer and advanced imaging software/features



EVOS xl core

- Brightfield and phase contrast
- Designed for repeated-use in routine tissue culture/live cell applications
- LED illumination for transmitted light
- 12-inch high-resolution LCD display
- Fits inside cell culture hoods and biosafety cabinets
- Embedded operating system with basic imaging features for capture and save to USB flash drive
- Affordable, unmatched price-to-performance value



EVOS xl

- Brightfield and phase contrast
- LED illumination for transmitted light
- 15-inch high-resolution LCD display
- Fits inside cell culture hoods and biosafety cabinets
- Integrated computer and advanced imaging software and features
- More optics selection than EVOS xl core
- Optional arm rest (on either side of microscope) for cell isolation procedures

Ordering Information

EVOS fl (fluorescence microscope)

Objectives*	LED Light Cubes	AMG Part No.
Sold separately	Sold separately	AMF-4300
Sold separately	GFP, RFP, DAPI	AMF-4305
Plan Achrom 4X; Plan Fluor 10X, 20X, 40X	Sold separately	AMF-4304
Plan Achrom 4X; Plan Fluor 10X, 20X, 40X	GFP, RFP, DAPI	AMF-4302
Plan Achrom 2X, 4X; Plan Fluor 10X, 20X, 40X	GFP, RFP, DAPI	AMF-4301
Plan Fluor Ph 4X, 10X, 20X, 40X	GFP, RFP, DAPI	AMF-4306

*All 20X and 40X objectives shown above are Long Working Distance

EVOS xl core (cell culture microscope)

Objectives*	Stage	AMG Part No.
Plan Achrom Ph 4X, 10X, 20X	Fixed	AMEX-1100
Plan Achrom Ph 4X, 10X, 20X, 40X	Mechanical	AMEX-1200

*All 20X and 40X objectives shown above are Long Working Distance

EVOS xl (transmitted light microscope)

Objectives*	Arm Rest	AMG Part No.
Sold separately	Sold separately	AME-3300
Plan Achrom Ph 4X, 10X, 20X, 40X	Sold separately	AME-3302
Plan Achrom Ph 4X, 10X, 20X, 40X	Sold separately	AME-3301
Plan Achrom 2X; Plan Achrom Ph 4X, 10X	Yes	AME-3311

*All 20X and 40X objectives shown above are Long Working Distance

Please contact your local representative or visit our web site at www.amgmicro.com for a complete list of microscopes, objectives, LED light cubes, vessel holders, and stage plates.



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