

YTOT
STOCK CODE: 300790



OPTICAL LENS PRODUCT CATALOGUE

YTOT-embrace the world
View the universe

DONGGUAN YUTONG OPTICAL
TECHNOLOGY CO.,LTD.



Website: www.ytotglobal.com



COMPANY PROFILE

Dongguan Yutong Optical Technology Co.,Ltd is a professional optical solution provider in China. Focus on R&D, Production, Sales and After-sales service of the optical lenses, and other related products, YTOT is committed to providing high-precision lenses and cutting-edge optical technology to global customers. Products are mainly used in Safety&Security, Consumer Electronic, Automotive Cameras, Machine Vision and other high-precision optical systems. The headquarters of YTOT is situated in Dongguan city, Guangdong province, YTOT has a wholly-owned subsidiary company in Shangrao city, Jiangxi province and establishes YTOT Optical Park there. Covering about 198,000 square meters, with 2000 employees, YTOT puts strong efforts to automatic renovation to realize high-efficiency and high-quality production.

YTOT always looks forward to sincere cooperation with partners worldwide and jointly creates long-term business relationships within mutual benefits. YTOT has invested heavily in automation transformation to achieve efficient and high-quality production. YTOT successfully listed on the Shenzhen Stock Exchange in September 2019 with the stock code: 300790.



CATALOGUE

1 COMPANY PROFILE

2 PRODUCT

SUPER STARLIGHT FULL
COLOR SERIES 07

STAR PRODUCTS 08

FIXED FOCAL LENS SERIES:

4K Series 09

Super Starlight Full Color Series 12

Starlight Series 14

MTV Series 16

Wide-angle Fixed Focal Lens 19

1/4" Series 21

Low Distortion Series 22

Fish-eye Series 23

VARI-FOCAL LENS SERIES:

Zoom Series 24

4K Series 26

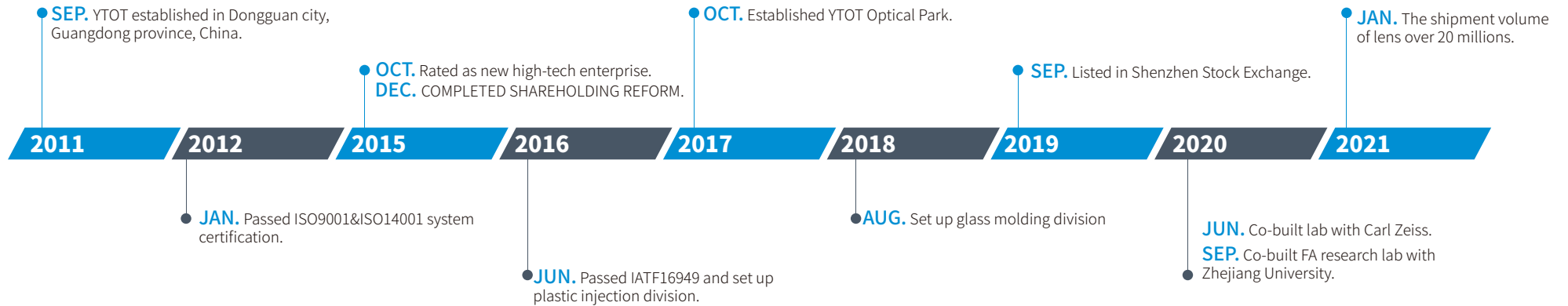
Super Starlight Full Color Series 27

Vari-Focal Series 28

CS Series 30

3 TECHNICAL REFERENCE

DEVELOPMENT PROCESS



PATENT ACHIEVEMENT

Persist in independent innovation and master the core technology of the industry

Currently we have already entitled 242 patents.



01

2018 Enterprise patent

- A minisize high-definition super-wide-angle fixed focal lens
- A small-size super-wide-angle short-focus fixed focal lens
- An economic high-definition athermal fixed focal lens



02

2019 Enterprise patent

- An aperture-adjustable mechanism
- A super-large-aperture wide-angle backlight fixed lens
- An Infrared confocal lens



03

2020 Enterprise patent

- Face recognition optical lens
- Ring pressing & fastening device for optical lens
- Parallelism measuring device and parallelism measuring system of press

04

2021 Enterprise patent

- A day-night dual functional fixed focal lens
- A sole focal point switching structure
- A method and a device to measure verticality



CERTIFICATION



- Passed ISO9001, ISO14001, IATF16949, IECQ-QC080000, Intellectual property management system certification.
- Products passed CE, RoHS, REACH certifications.

MEASUREMENT AND PRODUCTION EQUIPMENT



Nano 3 coordinate measuring machine



Developing oriented high precision mtf tester



Zeiss industrial CT scanner



Panasonic high precision 3D profiler



Trioptics mtf tester



Trioptics decentering measurement machine



Non contact 3D profilometer



Smart molding production line



Automatic DIE pressing production line



Automatic assembly production line



Automatic assembly production line



Automatic MTF testing line

We have advanced testing and production equipment, which greatly improved our R&D and Automation.



SUPER STARLIGHT FULL COLOR SERIES

FULLY UPGRADED

FEARLESS IN DARK
FULL COLOR IMAGING
BRIGHT AS DAY



Characteristic:

- 1.F1.0 Super-large-aperture, Full-color Imaging in the dark.
- 2.Comprehensive product layout, covering commonly used focal length and format.
- 3.Composite aspherical lens technology, improving the image quality.

STAR PRODUCTS

Fast zoom, precision focus and high resolution all-in-one lens

Much clearer, more realistic visual experience.

Clearly view the world by star light. Super-large-aperture, much clearer night vision.

Zoom Series

4K Series

Super Starlight Series

- 33X/ 5X/ 4X/ 3X magnification
- High resolution imaging, day and night
- Special mount



- 4K UHD lens
- Support Near-infrared, Day and Night
- Manual/motorized zoom for choice




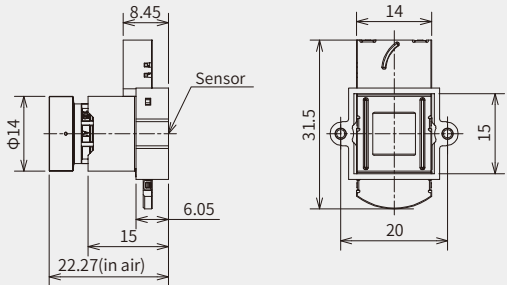
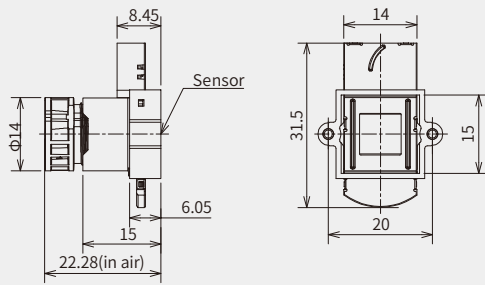
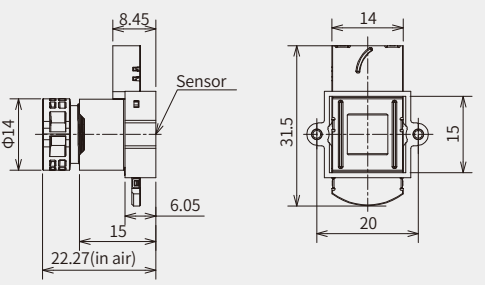


- 2.8mm, 4mm, 6mm, 2.7-10mm
- Lower FNo. , Day and Night
- Lens module, motorized zoom for choice




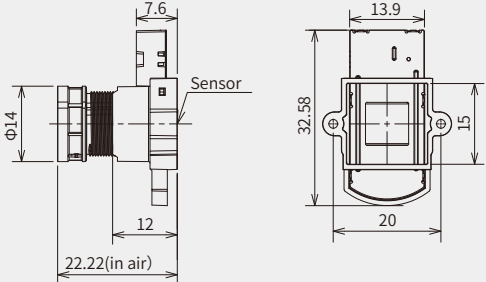
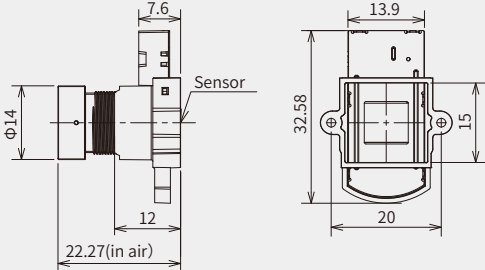
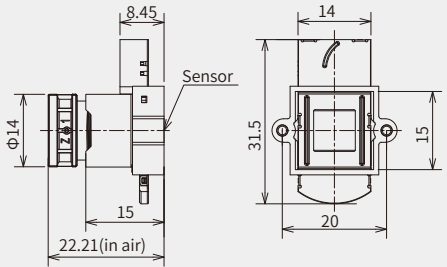


*Note: Product pictures and mechanical drawing in this booklet only for reference; product parameters are subject to SPEC document.





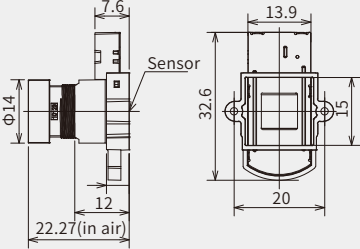
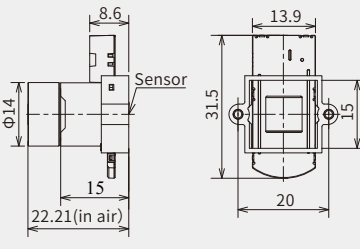
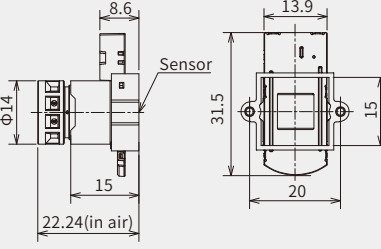
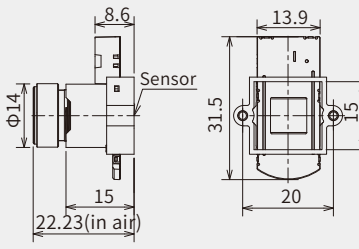
4K SERIES

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Product appearance						
Mechanical drawing						
Focal length	2.8mm		4mm		6mm	
F No.	F1.6		F1.6		F1.6	
Format	1/1.8"		1/1.8"		1/1.8"	
Mechanical back focal length	4.85mm		6.17mm		4.99mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	8MP/4MP		8MP/4MP		8MP/4MP	
FOV	1/1.8"(H)	110.0°	1/1.8"(H)	86.7°	1/1.8"(H)	59.9°
	1/1.8"(D)	134.1°	1/1.8"(D)	99.5°	1/1.8"(D)	67.9°
	1/2.5"(H)	84.8°	1/2.5"(H)	70.2°	1/2.5"(H)	49.3°
	1/2.5"(D)	100.0°	1/2.5"(D)	80.6°	1/2.5"(D)	56.0°
	1/2.7"(H)	77.6°	1/2.7"(H)	65.0°	1/2.7"(H)	45.8°
	1/2.7"(D)	91.0°	1/2.7"(D)	74.6°	1/2.7"(D)	52.2°




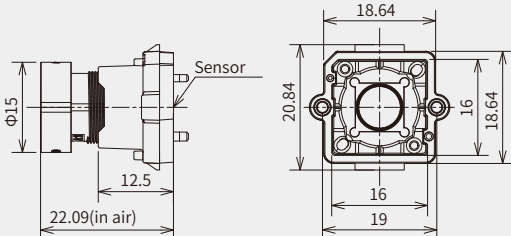
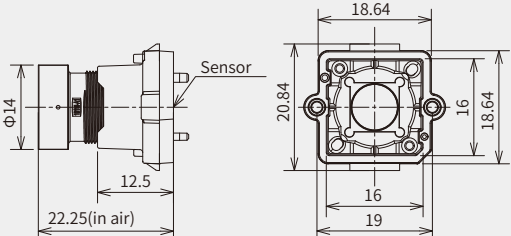
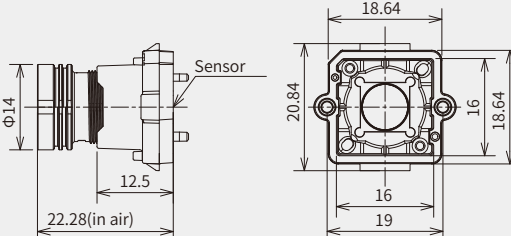
4K SERIES

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Product appearance						
Mechanical drawing						
Focal length	2.8mm		4mm		6mm	
F No.	F1.6		F1.6		F1.6	
Format	1/2.5"		1/2.5"		1/2.5"	
Mechanical back focal length	4.96mm		5.4mm		5.09mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	8MP/5MP/3MP		8MP/5MP/3MP		8MP/5MP/3MP	
FOV	1/2.5"(H)	113.1°	1/2.5"(H)	93.8°	1/2.5"(H)	58.3°
	1/2.5"(D)	138.7°	1/2.5"(D)	108.5°	1/2.5"(D)	66.7°
	1/2.7"(H)	100.3°	1/2.7"(H)	86.8°	1/2.7"(H)	53.0°
	1/2.7"(D)	119.7°	1/2.7"(D)	99.9°	1/2.7"(D)	60.6°
	1/2.8"(H)	96.3°	1/2.8"(H)	84.0°	1/2.8"(H)	51.3°
	1/2.8"(D)	114.3°	1/2.8"(D)	96.4°	1/2.8"(D)	58.7°

4K SERIES

	YT0X9Y31	YT0W4E11	YT0W7F61	YT0W3C61				
Product appearance								
Mechanical drawing								
Focal length	2.8mm	4mm	6mm	2.8mm				
F No.	F1.6	F1.6	F1.6	F2.0				
Format	1/2.7"	1/2.7"	1/2.7"	1/2.7"				
Mechanical back focal length	5.01mm	5.38mm	5.03mm	6.05mm				
Mount	M12*P0.5	M12*P0.5	M12*P0.5	M12*P0.5				
Resolution	8MP/5MP/HD	8MP	8MP	8MP				
FOV	1/2.7"(H)	109.1°	1/2.7"(H)	91.3°	1/2.7"(H)	51.8°	1/2.7"(H)	105.4°
	1/2.7"(D)	126.7°	1/2.7"(D)	109.6°	1/2.7"(D)	65.6°	1/2.7"(D)	125.1°
	1/2.8"(H)	105.3°	1/2.8"(H)	87.5°	1/2.8"(H)	53.8°	1/2.8"(H)	101.3°
	1/2.8"(D)	122.0°	1/2.8"(D)	104.9°	1/2.8"(D)	62.8°	1/2.8"(D)	119.7°
	1/2.9"(H)	101.5°	1/2.9"(H)	83.8°	1/2.9"(H)	47.6°	1/2.9"(H)	97.4°
	1/2.9"(D)	117.4°	1/2.9"(D)	100.1°	1/2.9"(D)	59.4°	1/2.9"(D)	114.6°

SUPER STARLIGHT FULL COLOR SERIES

	YT0X9X81		YT0X7X61		YT0X9X51	
Product appearance						
Mechanical drawing						
Focal length	2.8mm		4mm		6mm	
F No.	F1.0		F1.0		F1.0	
Format	1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	4.18mm		3.86mm		4.76mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	5MP/HD		5MP/HD		5MP/HD	
FOV	1/2.7"(H)	109.7°	1/2.7"(H)	88.1°	1/2.7"(H)	56.6°
	1/2.7"(D)	131.0°	1/2.7"(D)	104.1°	1/2.7"(D)	65.4°
	1/2.8"(H)	105.2°	1/2.8"(H)	84.6°	1/2.8"(H)	54.6°
	1/2.8"(D)	125.1°	1/2.8"(D)	100.0°	1/2.8"(D)	63.2°
	1/2.9"(H)	100.9°	1/2.9"(H)	81.3°	1/2.9"(H)	52.6°
	1/2.9"(D)	119.5°	1/2.9"(D)	95.5°	1/2.9"(D)	60.8°





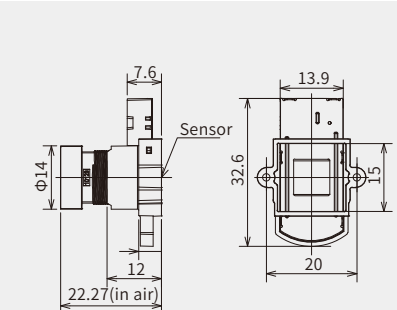
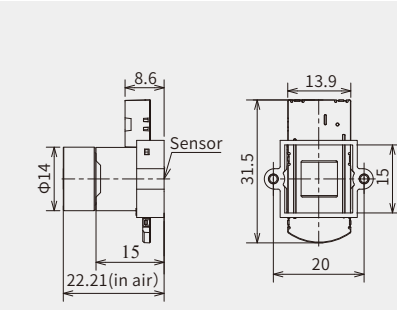
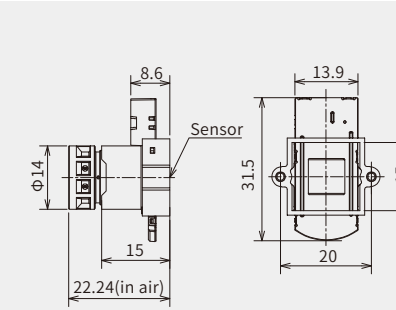
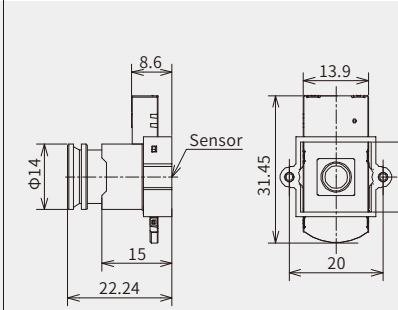
SUPER STARLIGHT FULL COLOR SERIES

Fixed Focus Series

	YT0X7X01		YT0W9F31		YT0X4X21		YT0X6A31	
Product appearance								
Mechanical drawing								
Focal length	2.8mm		4mm		6mm		8mm	
F No.	F1.0		F1.0		F1.0		F1.0	
Format	1/1.8"		1/1.8"		1/1.8"		1/1.8"	
Mechanical back focal length	3.88mm		4.17mm		4.0mm		4.0mm	
Mount	M16*P0.5		M16*P0.5		M16*P0.5		M16*P0.5	
Resolution	8MP/4MP		8MP/4MP		8MP/4MP		8MP/4MP	
FOV	1/1.8"-8MP(H)	110.0°	1/1.8"(H)	95.2°	1/1.8"(H)	57.1°	1/1.8"(H)	42.1°
	1/1.8"-8MP(D)	130.6°	1/1.8"(D)	114.7°	1/1.8"(D)	67.2°	1/1.8"(D)	48.1°
	1/1.8"-4MP(H)	112.2°	1/2"(H)	86.5°	1/2.5"(H)	44.5°	-	-
	1/1.8"-4MP(D)	133.9°	1/2"(D)	102.5°	1/2.5"(D)	50.5°	-	-
	1/2"(H)	102.2°	-	-	1/2.7"(H)	41.3°	-	-
	1/2"(D)	120.0°	-	-	1/2.7"(D)	48.1°	-	-





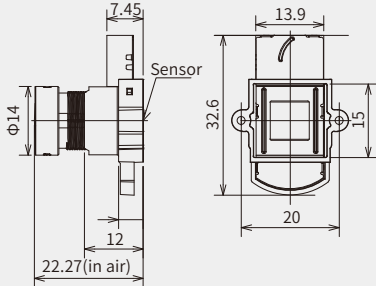
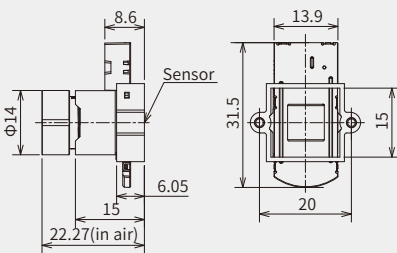
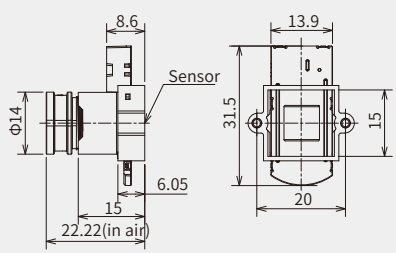
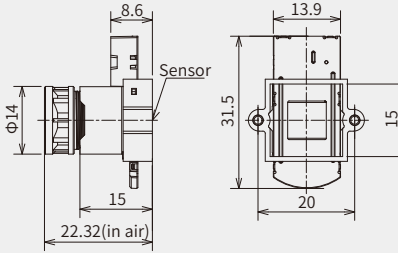
STARLIGHT SERIES

Fixed Focus Series




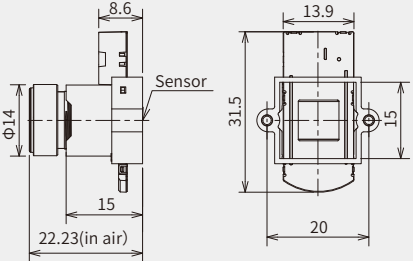
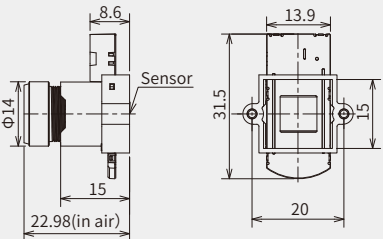
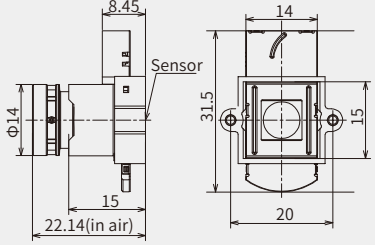
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Product appearance								
Mechanical drawing								
Focal length	2.8mm		4mm		6mm		8mm	
F No.	F1.6		F1.6		F1.6		F1.6	
Format	1/2.7"		1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	5.01mm		5.38mm		5.03mm		5.74mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	8MP/5MP/HD		5MP/HD		5MP/HD		6MP/4MP/HD	
FOV	1/2.7"(H)	109.1°	1/2.7"(H)	91.3°	1/2.7"(H)	51.8°	1/2.7"(H)	42.6°
	1/2.7"(D)	126.7°	1/2.7"(D)	109.6°	1/2.7"(D)	65.6°	1/2.7"(D)	48.4°
	1/2.8"(H)	105.3°	1/2.8"(H)	87.5°	1/2.8"(H)	53.8°	1/2.8"(H)	41.2°
	1/2.8"(D)	122.0°	1/2.8"(D)	104.9°	1/2.8"(D)	62.8°	1/2.8"(D)	46.9°
	1/2.9"(H)	101.5°	1/2.9"(H)	83.8°	1/2.9"(H)	47.6°	1/2.9"(H)	39.9°
	1/2.9"(D)	117.4°	1/2.9"(D)	100.1°	1/2.9"(D)	59.4°	1/2.9"(D)	45.4°

STARLIGHT SERIES

Fixed Focus Series




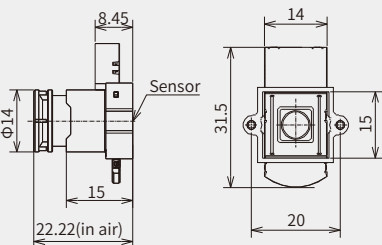
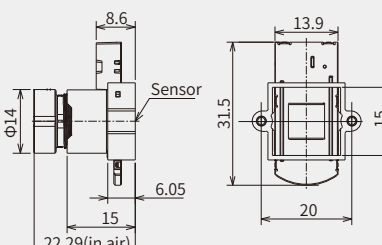
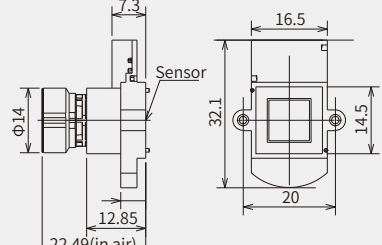
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Product appearance								
Mechanical drawing								
Focal length	2.8mm		2.8mm		4mm		6mm	
F No.	F1.6		F1.3		F1.3		F1.3	
Format	1/2.7"		1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	6mm		5.03mm		5.14mm		5.22mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	5MP/HD		5MP/3MP		5MP/3MP		5MP/3MP	
FOV	1/2.7"(H)	113.3°	1/2.7"(H)	111.5°	1/2.7"(H)	89.6°	1/2.7"(H)	57.7°
	1/2.7"(D)	132.5°	1/2.7"(D)	134.8°	1/2.7"(D)	106.4°	1/2.7"(D)	67.4°
	1/2.8"(H)	106.7°	1/2.8"(H)	106.9°	1/2.8"(H)	86.1°	1/2.8"(H)	55.5°
	1/2.8"(D)	127.3°	1/2.8"(D)	128.2°	1/2.8"(D)	101.8°	1/2.8"(D)	64.8°
	1/2.9"(H)	102.3°	1/2.9"(H)	102.4°	1/2.9"(H)	82.8°	1/2.9"(H)	53.3°
	1/2.9"(D)	121.4°	1/2.9"(D)	122.1°	1/2.9"(D)	97.4°	1/2.9"(D)	62.4°

MTV SERIES




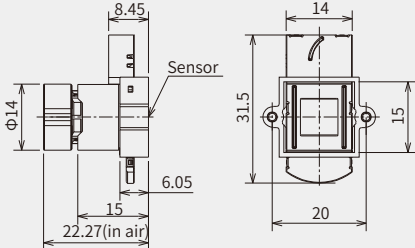
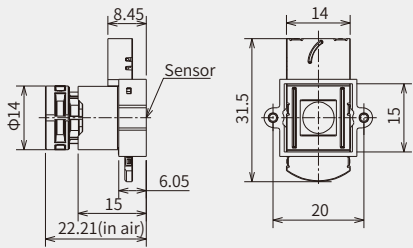
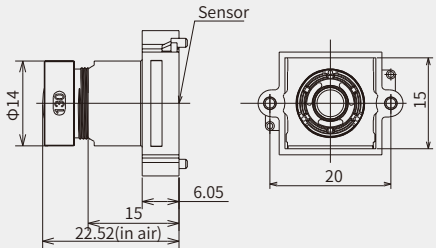
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Product appearance						
Mechanical drawing						
Focal length	2.8mm		4mm		6mm	
F No.	F2.0		F2.0		F2.0	
Format	1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	6.05mm		5.01mm		4.82mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	6MP/4MP/HD		5MP/HD		5MP/HD	
FOV	1/2.7"(H)	105.4°	1/2.7"(H)	90.8°	1/2.7"(H)	53.8°
	1/2.7"(D)	125.1°	1/2.7"(D)	108.7°	1/2.7"(D)	61.9°
	1/2.8"(H)	101.3°	1/2.8"(H)	87.2°	1/2.8"(H)	51.9°
	1/2.8"(D)	119.7°	1/2.8"(D)	103.7°	1/2.8"(D)	60.0°
	1/2.9"(H)	97.4°	1/2.9"(H)	83.7°	1/2.9"(H)	50.0°
	1/2.9"(D)	114.6°	1/2.9"(D)	99.0°	1/2.9"(D)	58.0°

Fixed Focus Series




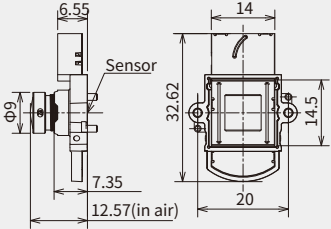
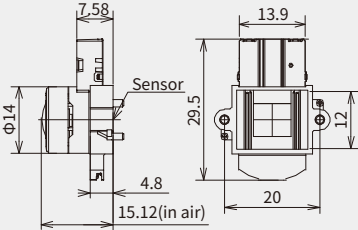
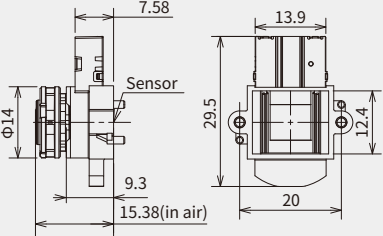
MTV SERIES

	YT0W3B11		YT0X3A21		YT0X1Z51	
Product appearance						
Mechanical drawing						
Focal length	8mm		2.8mm		2.8mm	
F No.	F2.0		F2.0		F2.0	
Format	1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	4.90mm		5.64mm		4.86mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	6MP/4MP/HD		5MP/HD		5MP/HD	
FOV	1/2.7"(H)	41.3°	1/2.7"(H)	110.3°	1/2.7"(H)	112.8°
	1/2.7"(D)	47.5°	1/2.7"(D)	131.8°	1/2.7"(D)	134.7°
	1/2.8"(H)	40.0°	1/2.8"(H)	105.8°	1/2.8"(H)	108.4°
	1/2.8"(D)	45.9°	1/2.8"(D)	125.9°	1/2.8"(D)	128.5°
	1/2.9"(H)	38.6°	1/2.9"(H)	101.5°	1/2.9"(H)	104.0°
	1/2.9"(D)	44.3°	1/2.9"(D)	120.2°	1/2.9"(D)	122.8°




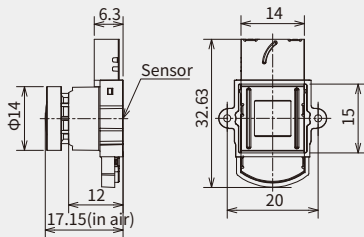
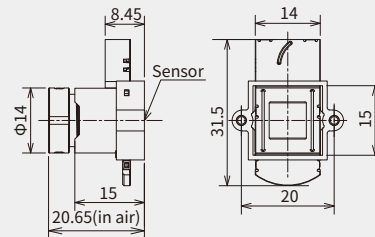
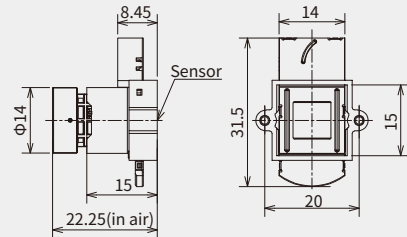
MTV SERIES

	YT0X5W01		YT0X7W21		NEW YT0X1Z01	
Product appearance						
Mechanical drawing						
Focal length	2.8mm		4mm		24mm	
F No.	F2.2		F2.2		F2.8	
Format	1/2.7"		1/2.7"		1/2.7"	
Mechanical back focal length	4.93mm		4.97mm		8.53mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	5MP/HD		5MP/HD		HD	
FOV	1/2.7"(H)	102.0°	1/2.7"(H)	86.1°	1/2.7"(H)	13.5°
	1/2.7"(D)	124.4°	1/2.7"(D)	104.0°	1/2.7"(D)	15.3°
	1/2.8"(H)	97.8°	1/2.8"(H)	82.5°	1/2.8"(H)	13.0°
	1/2.8"(D)	117.9°	1/2.8"(D)	99.3°	1/2.8"(D)	14.9°
	1/3.2"(H)	82.8°	1/2.9"(H)	79.1°	1/2.9"(H)	12.6°
	1/3.2"(D)	97.3°	1/2.9"(D)	94.9°	1/2.9"(D)	14.4°




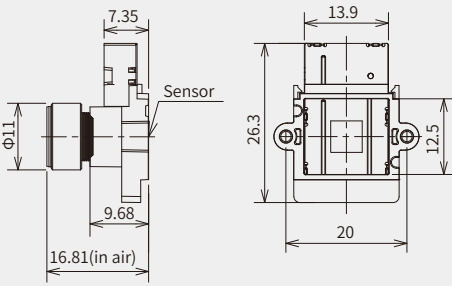
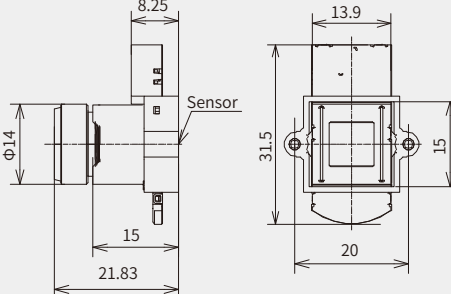
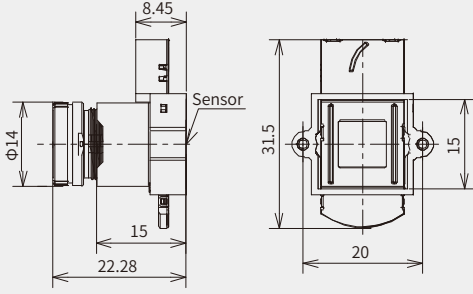
WIDE-ANGLE FIXED FOCAL LENS

	YT0X8X91		YT0W6Z81		YT0W1D51	
Product appearance						
Mechanical drawing						
Focal length	2.3mm		2.1mm		2.8mm	
F No.	F2.2		F2.1		F2.2	
Format	1/2.8"		1/2.9"		1/2.8"	
Mechanical back focal length	3.2mm		3.37mm		3.33mm	
Mount	M8*P0.35		M12*P0.5		M12*P0.5	
Resolution	5MP/HD		4MP/HD		HD/MP	
FOV	1/2.8"(H)	139.1°	1/2.9"(H)	141.4°	1/2.8"(H)	117.8°
	1/2.8"(D)	170.9°	1/2.9"(D)	161.0°	1/2.8"(D)	141.9°
	1/3"(H)	127.0°	1/3"(H)	137.4°	1/3"(H)	99.5°
	1/3"(D)	152.4°	1/3"(D)	156.8°	1/3"(D)	129.5°
	1/4"(H)	91.5°	1/4"(H)	103.0°	1/4"(H)	78.8°
	1/4"(D)	105.5°	1/4"(D)	117.2°	1/4"(D)	90.9°




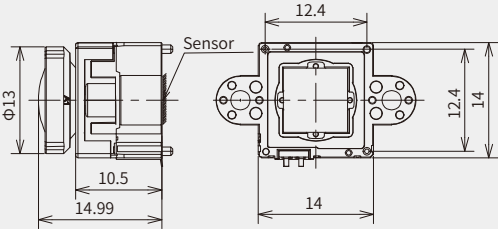
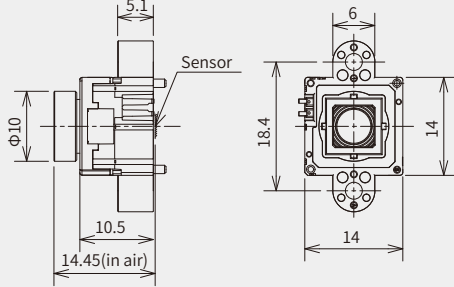
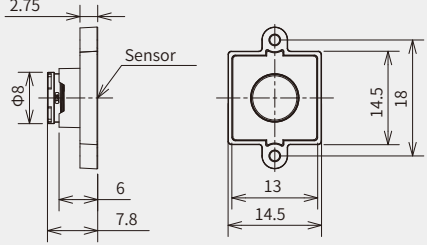
WIDE-ANGLE FIXED FOCAL LENS

	YT0X3W81		YT0X7X31		YT0X2W11	
Product appearance						
Mechanical drawing						
Focal length	2.6mm		3.5mm		2.8mm	
F No.	F2.0		F2.0		F2.2	
Format	1/2.7"		1/2.7"		1/3.2"	
Mechanical back focal length	4.17mm		4.75mm		4.98mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5	
Resolution	5MP/HD		5MP/HD		HD	
FOV	1/2.7"(H)	135.1°	1/2.7"(H)	100.0°	1/3.2"(H)	102.7°
	1/2.7"(D)	160.0°	1/2.7"(D)	122.2°	1/3.2"(D)	128.7°
	1/2.8"(H)	129.4°	1/2.8"(H)	95.7°	1/4"(H)	78.8°
	1/2.8"(D)	153.6°	1/2.8"(D)	115.7°	1/4"(D)	92.4°
	1/2.9"(H)	124.3°	1/2.9"(H)	91.6°	-	-
	1/2.9"(D)	147.2°	1/2.9"(D)	109.8°	-	-

1/4" SERIES





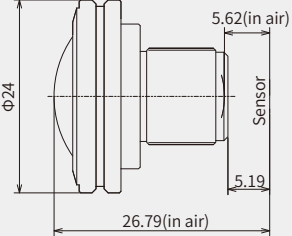
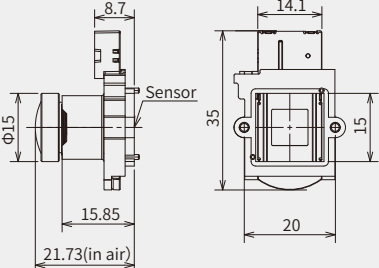
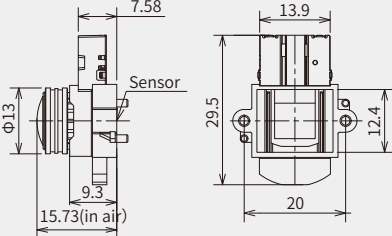
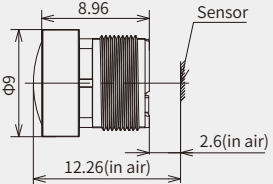
	YT0W0C71		YT0W7X71		YT0W8B21	
Product appearance						
Mechanical drawing						
Focal length	2.6mm		2.8mm		3.2mm	
F No.	F2.3		F2.3		F2.2	
Format	1/4"		1/4"		1/4"	
Mechanical back focal length	3.46mm		4.83mm		4.70mm	
Mount	M8*P0.35		M12*P0.5		M12*P0.5	
Resolution	HD/MP		MP		MP	
FOV	H=4.5mm	112.6°	1/4"(H)	91.7°	1/4"(H)	72.6°
	H=4.4mm	109.4°	1/4"(D)	107.9°	1/4"(D)	86.6°
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

LOW DISTORTION SERIES




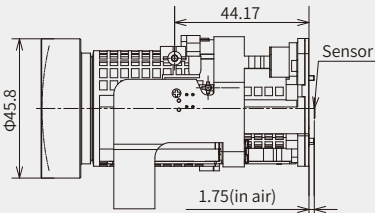
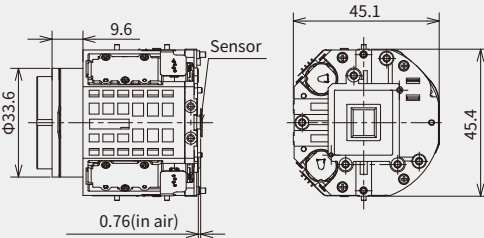
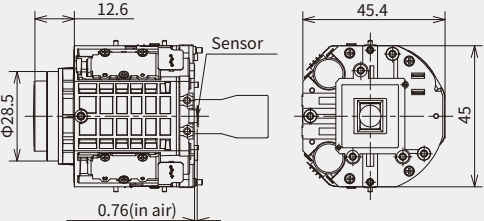
	YT0X7A51		YT0X5Y01		YT0X2Y61	
Product appearance						
Mechanical drawing						
Focal length	2.0mm		3.0mm		4.3mm	
F No.	F2.0		F2.0		F2.0	
Format	1/2.8"		1/2.8"		1/2.7"	
Mechanical back focal length	2.93mm		3.16mm		0.69mm	
Mount	M8*P0.35		M8*P0.35		M8*P0.35	
Resolution	8MP/5MP/HD		8MP/5MP/HD		5MP/HD	
FOV	1/2.8"(H)	111.0°	1/2.8"(H)	84.5°	1/2.7"(H)	67.3°
	1/2.8"(D)	120.3°	1/2.8"(D)	93.1°	1/2.7"(D)	75.1°
	1/2.9"(H)	108.7°	1/2.9"(H)	82.4°	1/2.8"(H)	65.4°
	1/2.9"(D)	117.8°	1/2.9"(D)	90.9°	1/2.8"(D)	73.1°
	-	-	-	-	1/2.9"(H)	63.5°
	-	-	-	-	1/2.9"(D)	71.1°

FISH-EYE SERIES

Fixed Focus Series

	YT0W6W17		YT0W8W27		YT0W3W57		YT0W9W67	
Product appearance								
Mechanical drawing								
Focal length	1.5mm		1.1mm		0.98mm		2.2mm	
F No.	F1.8		F2.0		F2.1		F2.0	
Format	Φ4.2		Φ3.2		Φ3.0		1/2.7"	
Mechanical back focal length	5.19mm		4.05mm		3.13mm		2.61mm	
Mount	M12*P0.5		M12*P0.5		M12*P0.5		M8*P0.35	
Resolution	8MP		4MP/HD		HD/MP		4MP/HD	
FOV	Φ4.2	190°	Φ3.2	180°	Φ3.0	200°	1/2.7"(H)	156.0°
							1/2.7"(D)	192.0°
							1/2.8"(H)	147.0°
							1/2.8"(D)	180.0°
							1/2.9"(H)	141.5°
							1/2.9"(D)	170.0°

ZOOM SERIES




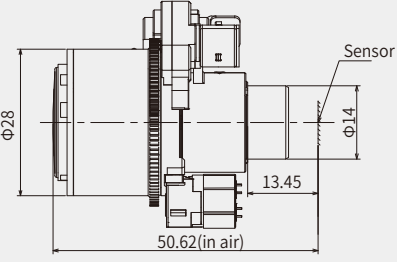
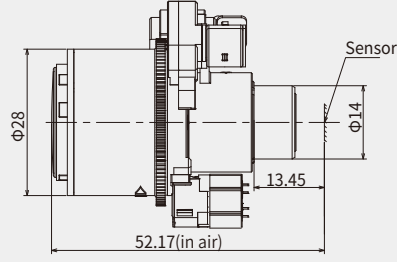
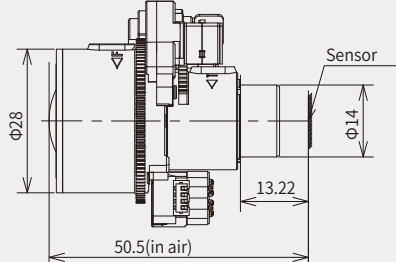
	YT0W3W25		YT0W2X15		YT0W6X35	
Product appearance						
Mechanical drawing						
Focal length	4.5-148.5mm		8-32mm		2.7-13.5mm	
F No.	F1.4		F1.3		F1.3	
Format	1/2.7"		1/1.8"		1/2.7"	
Mechanical back focal length	1.70mm		0.76mm		0.76mm	
Mount	Special Mount		Special Mount		Special Mount	
Resolution	4MP/HD		8MP/4MP/HD		8MP/5MP	
FOV	1/2.7"(H)	61.9°-2.4°	1/1.8"(H)	42.0°-15.0°	1/2.7"(H)	113.0°-31.4°
	1/2.7"(D)	68.9°-2.7°	1/1.8"(D)	48.7°-17.1°	1/2.7"(D)	138.2°-36.0°
	1/2.8"(H)	60.1°-2.3°	1/1.9"(H)	40.4°-14.4°	1/2.8"(H)	108.1°-30.3°
	1/2.8"(D)	67.3°-2.6°	1/1.9"(D)	47.0°-16.5°	1/2.8"(D)	130.9°-34.8°
	1/3"(H)	53.1°-2.0°	1/2"(H)	39.4°-14.2°	1/2.9"(H)	103.4°-29.3°
	1/3"(D)	63.9°-2.5°	1/2"(D)	45.8°-16.2°	1/2.9"(D)	124.2°-33.6°

ZOOM SERIES



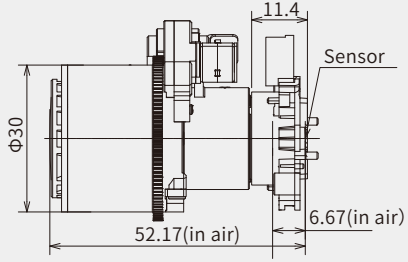
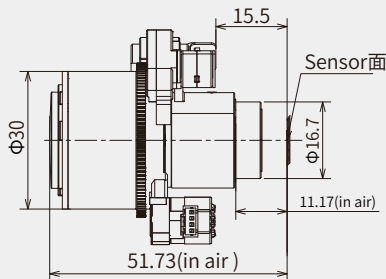
Vari-Focal Series

	YT0W1X55		YT0W3X75		YT0W3Y05	
Product appearance						
Mechanical drawing						
Focal length	2.8-8mm		4-10mm		4.5-8mm	
F No.	F1.4		F1.3		F1.0	
Format	1/2.8"		1/1.8"		1/1.8"	
Mechanical back focal length	0.76mm		0.76mm		1.1mm	
Mount	Special Mount		Special Mount		Special Mount	
Resolution	8MP/5MP		8MP/4MP		8MP/4MP	
FOV	1/2.8"(H)	110.1°-57.1°	1/1.8"-8MP(H)	112.1°-47.5°	1/1.8"-8MP(H)	102.8°-55.3°
	1/2.8"(D)	138.3°-66.1°	1/1.8"-8MP(D)	137.5°-54.6°	1/1.8"-8MP(D)	127.2°-63.8°
	1/2.9"(H)	104.9°-55.0°	1/1.8"-4MP(H)	114.6°-48.3°	1/1.8"-4MP(H)	105.0°-56.2°
	1/2.9"(D)	129.4°-63.7°	1/1.8"-4MP(D)	141.6°-55.5°	1/1.8"-4MP(D)	131.2°-64.9°
	-	-	1/1.9"(H)	103.1°-44.5°	-	-
	-	-	1/1.9"(D)	124.0°-51.1°	-	-




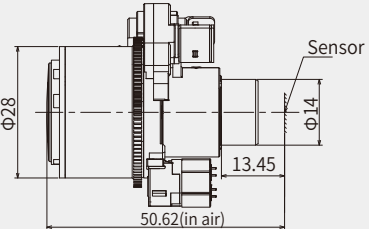
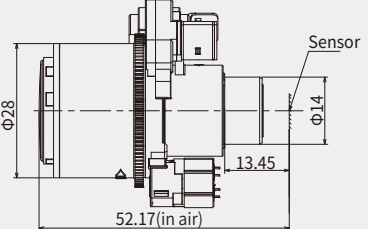
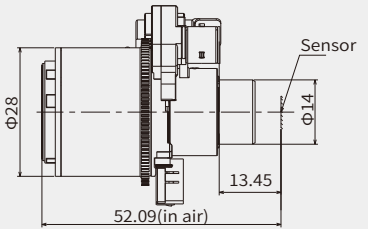
4K SERIES

	YT0W2Y73			YT0W5Y83			YT0W9Y13		
Product appearance									
Mechanical drawing									
Focal length	2.8-13.5mm			2.7-13.5mm			6-22mm		
F No.	F1.3			F1.3			F1.6		
Format	1/2.5"			1/2.7"			1/2.5"		
Flange back focal length	13.45mm			13.45mm			13.22mm		
Mount	Φ14			Φ14			Φ14		
Resolution	8MP			8MP			8MP/5MP/3MP		
FOV	1/2.5"	H:114.0°-33.9°	D:139.6°-38.9°	1/2.7"	H:113.0°-31.4°	D:138.2°-36.0°	1/2.5"	H:45.4°-18.2°	D:58.0°-22.4°
	1/2.7"	H:103.3°-31.4°	D:123.9°-36.0°	1/2.8"	H:108.1°-30.3°	D:130.9°-34.8°	1/2.7"	H:41.4°-16.6°	D:52.8°-20.8°
	1/2.8"	H:99.1°-30.3°	D:118.2°-34.8°	1/2.9"	H:103.4°-29.3°	D:124.2°-33.6°	1/3"	H:37.4°-15.2°	D:47.4°-19.0°
	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT
Product Series	YT0W2Y73FB.IR(-JZ)	Fixed Iris	-	YT0W5Y83FB.IR(-JZ)	Fixed Iris	-	YT0W9Y13FB.IR(-JZ)	Fixed Iris	-
	YT0W2Y73FB.ICR(-JZ)	Fixed Iris	√	YT0W5Y83FB.ICR(-JZ)	Fixed Iris	√	YT0W9Y13DB.IR(-JZ)	DC Iris	-
	YT0W2Y73DB.IR(-JZ)	DC Iris	-	YT0W5Y83DB.IR(-JZ)	DC Iris	-	YT0W9Y13DB.IR-PIRIS(-JZ)	P-Iris	-
	YT0W2Y73DB.IR-PIRIS(-JZ)	P-Iris	-	YT0W5Y83DB.IR-PIRIS(-JZ)	P-Iris	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Type of vari-focal lens	Manual/Motorized zoom for choice			Manual/Motorized zoom for choice			Manual/Motorized zoom for choice		



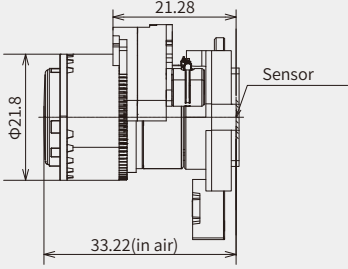
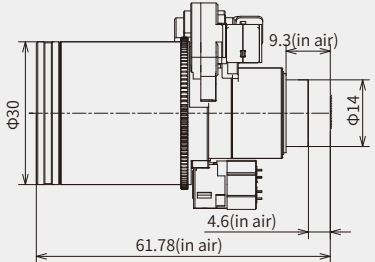
4K SERIES & SUPER STARLIGHT FULL COLOR SERIES

	YT0W2Z53			YT0W4Z33		
Product appearance						
Mechanical drawing						
Focal length	2.7-10mm			3.6-11mm		
F No.	F1.2			F1.3		
Format	Φ7.0			Φ9.2		
Flange back focal length	6.67mm			11.17mm		
Mount	Φ16.7			Φ16.7		
Resolution	8MP/5MP/HD			8MP/4MP		
FOV	1/2.7"	H:112.2°-35.3°	D:137.2°-40.5°	1/1.8"	H:112.1°-47.5°	D:137.5°-54.6°
	1/2.8"	H:107.4°-34.2°	D:129.8°-39.2°	-	-	-
	1/2.9"	H:102.8°-33.0°	D:123.2°-37.8°	-	-	-
Product Series	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT
	YT0W2Z53FB.IR(-JZ)	Fixed Iris	-	YT0W4Z33FB.IR(-JZ)	Fixed Iris	-
	YT0W2Z53DB.IR(-JZ)	DC Iris	-	YT0W4Z33DB.IR(-JZ)	DC Iris	-
	-	-	-	YT0W4Z33DB.IR-PIRIS(-JZ)	P-Iris	-
	-	-	-	-	-	-
	-	-	-	-	-	-
Type of vari-focal lens	Manual/Motorized zoom for choice			Manual/Motorized zoom for choice		




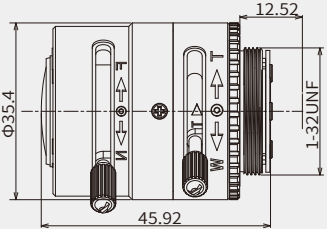
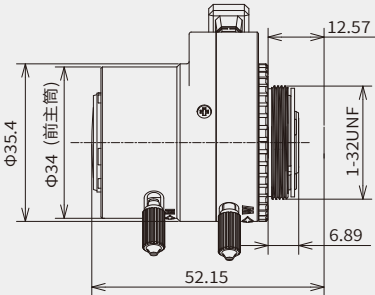
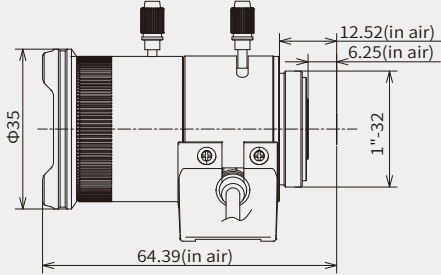
VARI-FOCAL SERIES

	YT0W2Y73			YT0W5Y83			YT0W0Z13		
Product appearance									
Mechanical drawing									
Focal length	2.8-13.5mm			2.7-13.5mm			2.8-12mm		
F No.	F1.3			F1.3			F1.4		
Format	1/2.5"			1/2.7"			1/2.7"		
Flange back focal length	13.45mm			13.45mm			13.45mm		
Mount	Φ14			Φ14			Φ14		
Resolution	5MP			5MP/HD			4MP/HD		
FOV	1/2.5"	H:114.0°-33.9°	D:139.6°-38.9°	1/2.7"	H:113.0°-31.4°	D:138.2°-36.0°	1/2.7"	H:106.6°-34.6°	D:132.9°-39.8°
	1/2.7"	H:103.3°-31.4°	D:123.9°-36.0°	1/2.8"	H:108.1°-30.3°	D:130.9°-34.8°	1/2.8"	H:101.7°-33.5°	D:125.0°-38.5°
	1/2.8"	H:99.1°-30.3°	D:118.2°-34.8°	1/2.9"	H:103.4°-29.3°	D:124.2°-33.6°	1/2.9"	H:97.1°-32.3°	D:118.0°-37.1°
Product Series	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT
	YT0W2Y73FB.IR(-JZ)	Fixed Iris	-	YT0W5Y83FB.IR(-JZ)	Fixed Iris	-	YT0W0Z13FB.IR(-JZ)	Fixed Iris	-
	YT0W2Y73FB.ICR(-JZ)	Fixed Iris	√	YT0W5Y83FB.ICR(-JZ)	Fixed Iris	√	YT0W0Z13FB.ICR(-JZ)	Fixed Iris	√
	YT0W2Y73DB.IR(-JZ)	DC Iris	-	YT0W5Y83DB.IR(-JZ)	DC Iris	-	YT0W0Z13DB.IR(-JZ)	DC Iris	-
	YT0W2Y73DB.IR-PIRIS(-JZ)	P-Iris	-	YT0W5Y83DB.IR-PIRIS(-JZ)	P-Iris	-	-	-	-
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Type of vari-focal lens	Manual/Motorized zoom for choice			Manual/Motorized zoom for choice			Manual/Motorized zoom for choice		



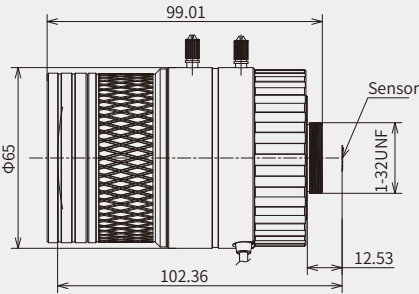
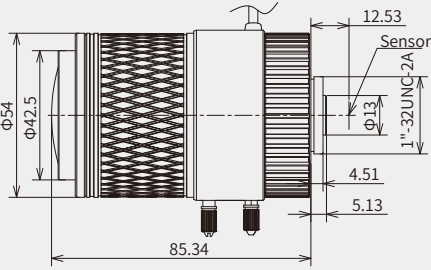
VARI-FOCAL SERIES

	YT0W9W53				YT0W2X73			
Product appearance								
Mechanical drawing								
Focal length	2.8-8mm				5-50mm			
F No.	F1.4				F1.6			
Format	1/2.7"				1/2.7"			
Flange back focal length	8.87mm				9.30mm			
Mount	Φ14				Φ14			
Resolution	5MP/3MP/HD				4MP/HD			
FOV	1/2.7"	H:119.6°-56.6°	D:148.9°-65.2°	1/2.7"	H:50.9°-7.7°	D:59.3°-8.8°		
	1/3"	H:95.0°-47.0°	D:126.7°-59.0°	1/3"	H:41.8°-6.4°	D:53.2°-8.0°		
	-	-	-	1/4"	H:33.1°-5.2°	D:38.2°-5.9°		
Product Series	MODEL	TYPE OF IRIS	IR-CUT	MODEL	TYPE OF IRIS	IR-CUT		
	YT0W9W53(-JZ)	Fixed Iris	-	YT0W2X73FB.IR(-JZ)	Fixed Iris	-		
	-	-	-	YT0W2X73DB.IR(-JZ)	DC Iris	-		
	-	-	-	YT0W2X73DB.IR-PIRIS(-JZ)	P-Iris	-		
	-	-	-	-	-	-		
Type of vari-focal lens	Manual/Motorized zoom for choice				Manual/Motorized zoom for choice			

CS SERIES

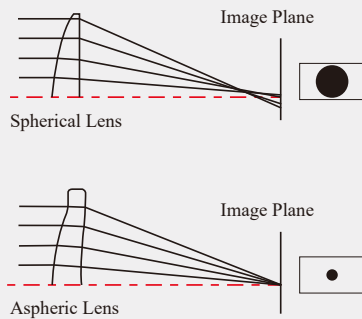
	YT0W4X13		YT0W5X63		YT0W2X73	
Product appearance						
Mechanical drawing						
Focal length	3.6-11mm		2.7-13.5mm		5-50mm	
F No.	F1.5		F1.6		F1.6	
Format	1/1.8"		1/2.7"		1/2.7"	
Mechanical back focal length	12.50mm		12.57mm		12.52mm	
Mount	CS		CS		CS	
Resolution	8MP/6MP/3MP		6MP/4MP/HD		4MP/HD	
FOV	1/1.8"(H)	112.5°-46.6°	1/2.7"(H)	113.5°-31.7°	1/2.7"(H)	50.9°-7.7°
	1/1.8"(D)	133.3°-53.4°	1/2.7"(D)	137.4°-36.3°	1/2.7"(D)	59.3°-8.8°
	1/2.5"(H)	85.6°-37.8°	1/2.8"(H)	108.8°-30.6°	1/3"(H)	41.8°-6.4°
	1/2.5"(D)	99.5°-43.3°	1/2.8"(D)	130.6°-35.1°	1/3"(D)	53.2°-8.0°
	-	-	1/3"(H)	91.2°-26.4°	1/4"(H)	33.1°-5.2°
	-	-	1/3"(D)	119.7°-33.0°	1/4"(D)	38.2°-5.9°

CS SERIES

	YT0W9W16		YT0W1W26	
Product appearance				
Mechanical drawing				
Focal length	10-40mm		3.8-16mm	
F No.	F1.4		F1.4	
Format	1/1.7"		1/1.7"	
Mechanical back focal length	12.53mm		12.51mm	
Mount	CS		CS	
Resolution	10MP		8MP	
FOV	1/1.7"(H)	27.8°-8.6°	1/1.7"(H)	112.3°-29.2°
	1/1.7"(D)	43.6°-13.4°	1/1.7"(D)	148.0°-35.8°
	-	-	1/1.8"(H)	106.0°-27.8°
	-	-	1/1.8"(D)	140.7°-34.7°
	-	-	1/1.9"(H)	107.8°-28.2°
-	-	1/1.9"(D)	131.6°-33.0°	

TECHNICAL REFERENCE

● ASL Aspherical Lenses Compensation Effect

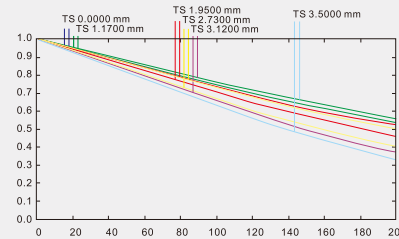


Flat Image

With advanced optical design technology, YTOT lenses can get high resolution and high contrast performance over the entire image field, from the center to the periphery. Also, these lenses are the most suitable for the image cut-out function of IP cameras.

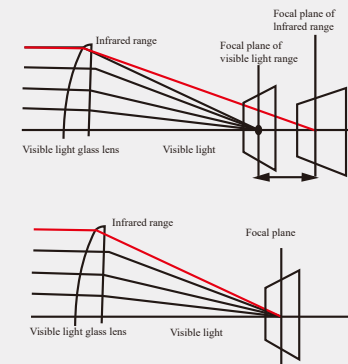
High Resolution of image peripheral

Correct all kinds of optical aberration, from the center to the corner, all in high resolution.



Day & Night

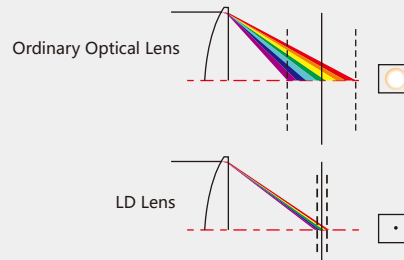
With special design, IR series lenses make the portrait aberration lowest, and the focal planes for the visible and infrared light ranges are almost the same, which means that the surveillance camera can deliver sharp images in both day and night applications.





Temperature Drift Capability Characteristics

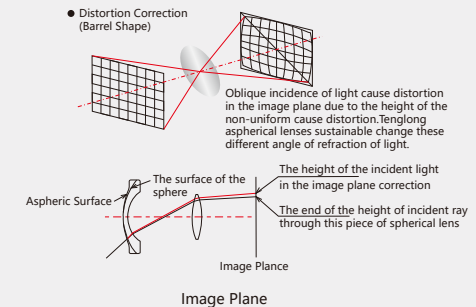
Adopting the low coefficient of thermal expansion optical material and the professional optical design makes lens resolution vary with the environmental temperature (Low Temperature or High Temperature), but the focus position of lens would not change. Thus no matter the temperature is high or low, the lens would get the clear image without focusing again.



Low Dispersion Glass Optical Lenses Application

Dispersion can reduce the sharpness seriously, and light decomposability is the causes of dispersion. (White light decomposes into seven color spectrum after refraction).

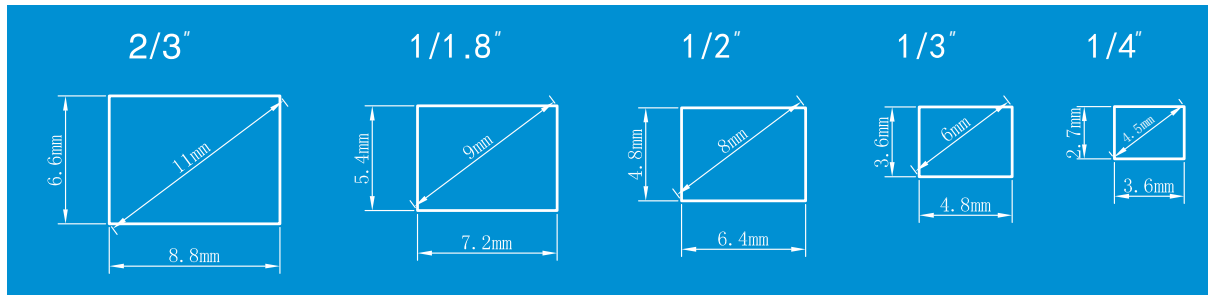
With low decomposability and refraction index, the application of low dispersion glass lenses can reduce the dispersion efficiently especially for the axial chromatic aberration of telephoto end and magnification chromatic aberration of wide angle end.



Composite Aspherical Lens Technology

To achieve the miniaturization and best image quality, composite aspherical lens design is adopted to correct the spherical aberrations and distortions, and promote the image quality sharply.

Technical Reference



2/3" lenses can also be used with 1/1.8", 1/2", 1/2.5", 1/2.7", 1/2.8", 1/3", 1/4" Imager Cameras.

1/1.8" lenses can also be used with 1/2", 1/2.5", 1/2.7", 1/2.8", 1/3", 1/4" Imager Cameras.

1/2" lenses can also be used with 1/2.5", 1/2.7", 1/2.8", 1/3", 1/4" Imager Cameras.

1/3" lenses can also be used with 1/4" Imager Cameras.

When fitting C-Mount lenses with CS-Mount cameras, use the C-CS adapter.

The "Angle of View" in the data sheets shows the data when the lens is used with a camera with the indicated imager size. About other cameras with different imager sizes, refer to the following datum:

2/3" lens	1/2" Camera	0.73* against the Specified Angle of View
	1/3" Camera	0.55* against the Specified Angle of View
	1/4" Camera	0.41* against the Specified Angle of View
1/1.8" lens	1/2" Camera	0.88* against the Specified Angle of View
	1/3" Camera	0.66* against the Specified Angle of View
	1/4" Camera	0.5* against the Specified Angle of View
1/2" lens	1/3" Camera	0.75* against the Specified Angle of View
	1/4" Camera	0.56* against the Specified Angle of View
1/3" lens	1/4" Camera	0.75* against the Specified Angle of View

Aperture Range

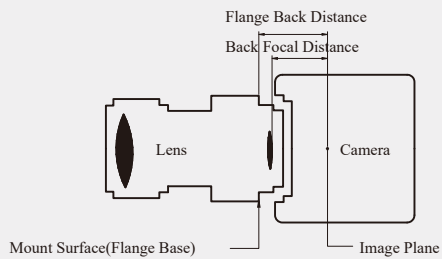
The F-number is used to indicate the speed of the lens from full open aperture to minimum aperture. The F-number is calculated using the following formula:

$F/No. = \text{Focal length} / \text{Effective Diameter of the lens.}$

Smaller F-number equal faster/brighter lenses.

Focusing Range

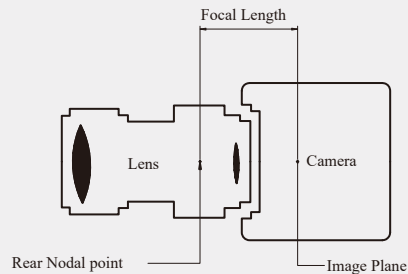
Indicates the shooting range from the Minimum Object Distance (M.O.D) to infinity. Generally, the range is measured from the physical end of the lens to the object.



Flange Back Distance & Back Focal Distance

Flange Back Distance: Distance between the mechanical rear end of the mount surface and the image plane.

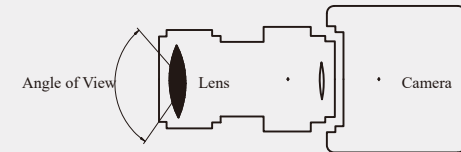
Back Focal Distance: Distance between the physical end of the lens element (side closest to the camera) and the image plane.



Focal Length

Distance between the rear nodal point and the focal point (Image Plane) on the optical axis.

The smaller the number, the wider the field of view.



Angle of View

Angle of the captured image as it relates to the given image size. Field-of-view angle will vary, even when using the same lens, depending on the imager size of the camera in use.



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