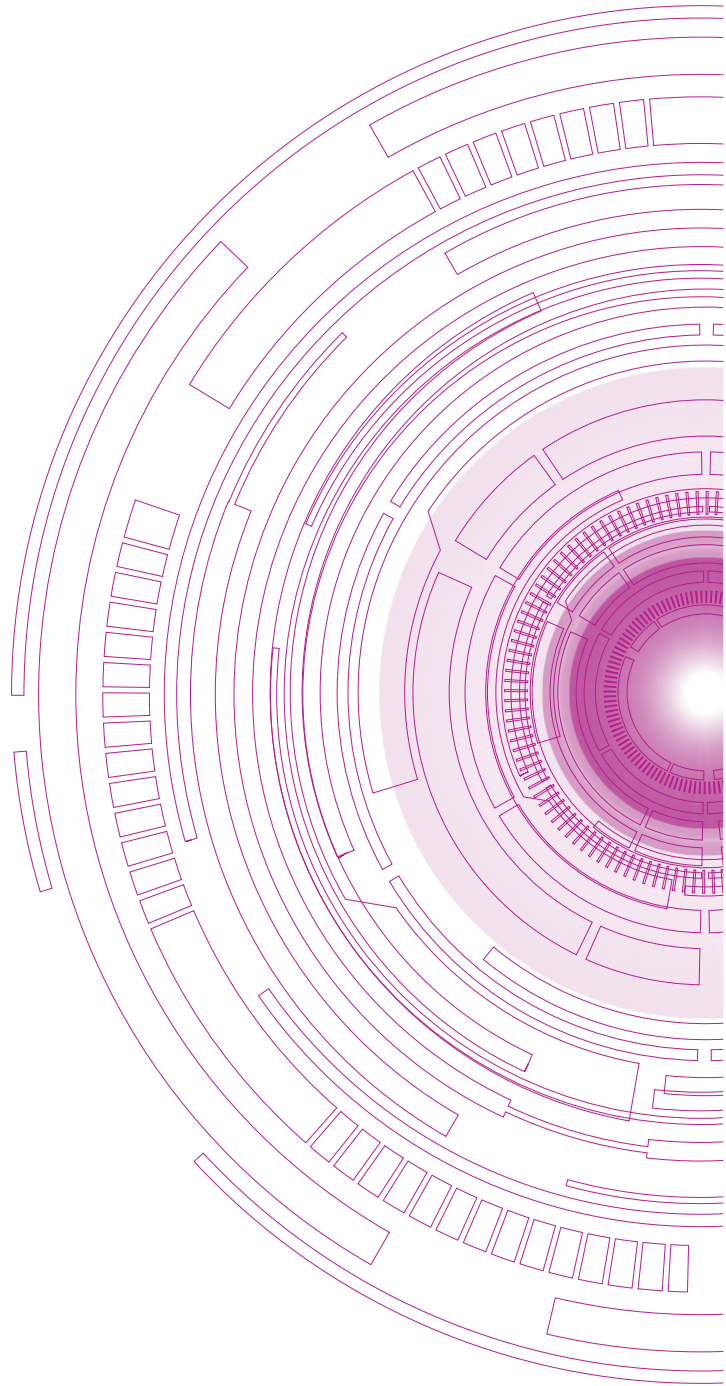


Industrial Imaging Lens

PRODUCT GUIDE





computer
catalyst of optics

BRAND PROMISE

As a Catalyst of Optics, Computar brings together diverse ideas and cutting-edge technology from multiple fields, developing innovations beyond any country's or industry's limitations.

Brand Story

As a Pioneer of Optics, Computar has set the standard. We excel by uniting our comprehensive production abilities, knowledge, interdisciplinary perspectives, and diverse specialties. We do this by discovering our evolving global society's constant and unexplored demands.

Our corporate origins date back one hundred years, with the last forty in optics. We have developed a sustained ability to understand imaging applications and to engineer unique and innovative products. This ingenuity is the backbone of Computar's growth.

Computar has set the pace for developing intelligent, value-added, high-performance industrial lenses with a solid foundation based on Japanese engineering. We have established enduring business partnerships and customer relationships in optics globally.

Computar's pioneering innovations result from the advancement of optics in analog and digital, security, and machine vision. Our hands-on knowledge, multiple collaborations, insight, and creativity make us who we are today.

Our optical science expertise in the advanced fields of 5G, IoT, and robotics enables us to respond to our customers' evolving demands globally. In addition, we actively promote technical liaisons beyond the borders of individual industries to deliver innovations based on a core of optical knowledge.

LensConnect Series

- New motorized lenses, enable power supply & control through USB (Available for I2C ver.)
- Floating focus design achieves ultra-high resolution from near to far
- Stepper motors realizes precise focus control and high repeatability
- Easy-to-install by free control software
- 1" 20MP, Suitable for large format sensor (IMX183)



MPT Series

- Dedicated design for 1.2"~1.4" new large format sensors (IMX530/IMX540/IMX492)
- Floating design achieves ultra-high resolution from near to far
- World's smallest size for large format megapixel sensors for industrial use
- Highly versatile C mount
- Wide range of lineup, 12mm/16mm/25mm/35mm/50mm



ViSWIR Series

- Dedicated design for next generation Visible+SWIR image sensor (IMX990/IMX991)
- Hyper Apochromat design, Fully corrected focus-shift between 400-1700nm
- Floating-focus mechanism realizes axial chromatic aberration and chromatic aberration of magnification at all WD and wavelength
- High transmittance at whole wavelength of 400nm-1700nm by adopting hyper wideband AR coat
- Minimize light scattering and clear images by adopting NIR absorbing coat



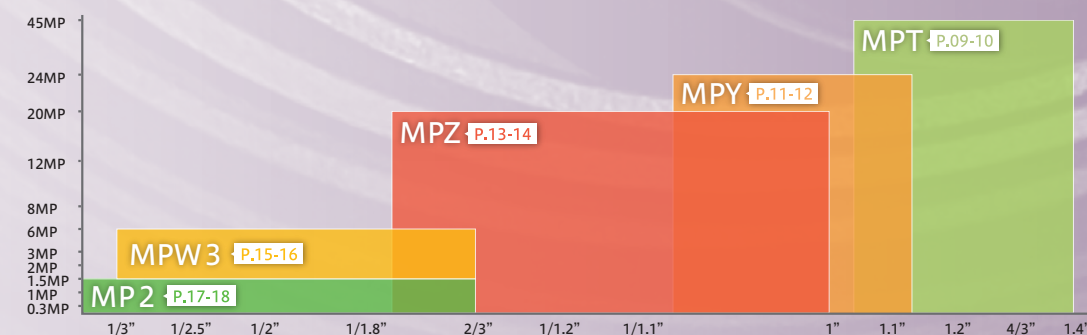
MPYIR Series

- Suitable for 1.1" 12MP sensor, Same size as conventional products
- Usable lineup for ANPR, 25mm/35mm/50mm
- Manual iris and P-iris available for each model
- No focus shift between visible light to NIR
- High spectral transmittance between visible light to NIR



INDEX

03-04	NEW	REMOTE CONTROL MACHINE VISION LENS	Lens Connect RF Series
05-08	NEW	REMOTE CONTROL MACHINE VISION LENS	Lens Connect BH Series
09-10	NEW	1.4" 45MP	MEGAPIXEL FIXED FOCAL LENS(MPT Series)
11-12		1.1" 24MP	MEGAPIXEL FIXED FOCAL LENS(MPY Series)
13-14		1" 20MP	MEGAPIXEL FIXED FOCAL LENS(MPZ Series)
15-16		2/3" 6MP	MEGAPIXEL FIXED FOCAL LENS(MPW3 Series)
17-18		2/3" 1.5MP	MEGAPIXEL FIXED FOCAL LENS(MP2 Series)
19-20	NEW		ViSWIR Hyper APO Series
21-22	NEW		ViSWIR Lite Series
23			MACRO ZOOM LENS
24			TELECENTRIC MACRO LENS
25		1.1" 1"	MEGAPIXEL TELECENTRIC LENS (TEC-V Series)
26-28		2/3"	MEGAPIXEL TELECENTRIC LENS (TEC-M Series)
29-30	NEW	1.1"	IR CORRECTIVE 12 MEGAPIXEL LENS for ITS (MPYIR Series)
31-32		2/3"	IR CORRECTIVE 5 MEGAPIXEL LENS for ITS (MPIR Series)
33			MEGAPIXEL BOARD LENS
34			ACCESSORIES
35-36			SECURITY LENS
37-38			TECHNICAL INFORMATION
39-45			FIELD OF VIEW
46			CBC WORLDWIDE NETWORK





NEW Lensconnect

RF Series

1" 20 MEGA PIXEL FIXED FOCAL REMOTE CONTROL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
VL0826U-MPZ	1"	8mm	F2.6	0.1m-Inf.	334g
VL1226U-MPZ		12mm	F2.6	0.1m-Inf.	273g
VL1624U-MPZ		16mm	F2.4	0.1m-Inf.	280g
VL2520U-MPZ		25mm	F2.0	0.15m-Inf.	257g
VL3522U-MPZ		35mm	F2.2	0.2m-Inf.	313g
VL5024U-MPZ		50mm	F2.4	0.2m-Inf.	326g
VL7531U-MPZ		75mm	F3.1	0.25m-Inf.	415g

- Motorized FA lens that can be operated easily with a single USB cable
- Focus and Iris can be controlled via USB
- Ultra-high resolution lens, suitable for 1" 20 megapixel sensor
- Much lower distortion for all models is beneficial for a variety of machine vision applications
- Has the newest optical design, which has a much higher relative illuminance compared to conventional models, despite having a large format 1" sensor (Ø16mm)

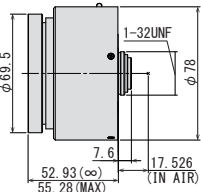
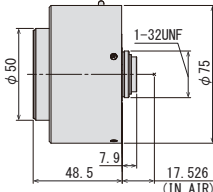
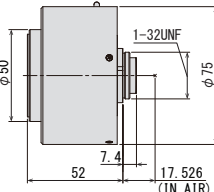
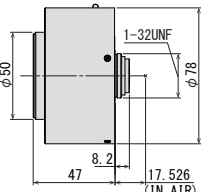
1"20MP

MOTORIZED

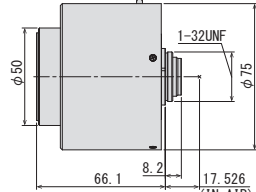
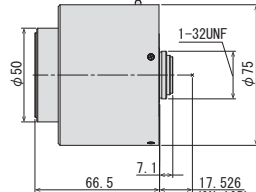
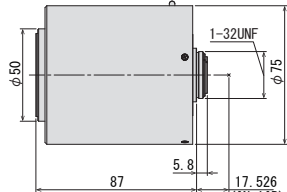
FIX

FLOATING



	VL0826U-MPZ	VL1226U-MPZ	VL1624U-MPZ	VL2520U-MPZ
   				
Focal Length	8mm	12mm	16mm	25mm
Max. Aperture Ratio	1:2.6	1:2.6	1:2.4	1:2.0
Max. Image Format	12.8mm × 9.6mm(φ 16mm)	12.8mm × 9.6mm(φ 16mm)	12.8mm × 9.6mm(φ 16mm)	12.8mm × 9.6mm(φ 16mm)
Operation Range	Iris F2.6 - F16.0	F2.6 - F16.0	F2.4 - F16.0	F2.0 - F16.0
	Focus 0.1m - Inf.	0.1m - Inf.	0.1m - Inf.	0.15m - Inf.
Control	Iris Motorized	Motorized	Motorized	Motorized
	Focus Motorized	Motorized	Motorized	Motorized
Angle of View	D 88.8°	67.4°	53.2°	35.5°
	H 1" 76.9°	56.7°	43.8°	28.8°
	V 61.5°	44.1°	33.6°	21.8°
Operating Temperature	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C
Optical Distortion	1" -0.8%	1" 0.0%	1" 0.0%	1" 0.0%
Back Focal Length	10.6mm (In Air)	10.6mm (In Air)	10.7mm (In Air)	9.1mm (In Air)
Flange Back Length	17.526mm (In Air)	17.526mm (In Air)	17.526mm (In Air)	17.526mm (In Air)
Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Size	M82 P=0.75mm (With ZM0810)*	M46 P=0.75mm	M43 P=0.75mm	M46 P=0.75mm
Weight	334g	273g	280g	257g
Control Interface	USB2.0	USB2.0	USB2.0	USB2.0
Power mode	Bus powerd (500mA)	Bus powerd (500mA)	Bus powerd (500mA)	Bus powerd (500mA)
Connector	USB TypeA	USB TypeA	USB TypeA	USB TypeA

*When using filters, lens requires VM0810 (sold separately).

	VL3522U-MPZ	VL5024U-MPZ	VL7531U-MPZ
  			
Focal Length	35mm	50mm	75mm
Max. Aperture Ratio	1:2.2	1:2.4	1:3.1
Max. Image Format	12.8mm × 9.6mm(φ 16mm)	12.8mm × 9.6mm(φ 16mm)	12.8mm × 9.6mm(φ 16mm)
Operation Range	Iris F2.2 - F16.0	F2.4 - F16.0	F3.1 - F16.0
	Focus 0.2m - Inf.	0.2m - Inf.	0.25m - Inf.
Control	Iris Motorized	Motorized	Motorized
	Focus Motorized	Motorized	Motorized
Angle of View	D 25.8°	18.2°	12.2°
	H 1" 20.8°	14.6°	9.8°
	V 15.7°	11.0°	7.3°
Operating Temperature	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C
Optical Distortion	1" 0.0%	1" 0.0%	1" 0.0%
Back Focal Length	9.7mm (In Air)	11.1mm (In Air)	12.0mm (In Air)
Flange Back Length	17.526mm (In Air)	17.526mm (In Air)	17.526mm (In Air)
Mount	C-Mount	C-Mount	C-Mount
Filter Size	M43 P=0.75mm	M43 P=0.75mm	M43 P=0.75mm
Weight	313g	326g	415g
Control Interface	USB2.0	USB2.0	USB2.0
Power mode	Bus powerd (500mA)	Bus powerd (500mA)	Bus powerd (500mA)
Connector	USB TypeA	USB TypeA	USB TypeA

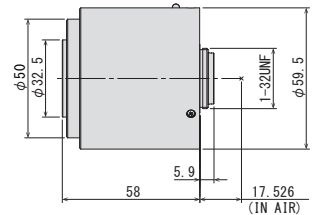


Model No.	Format	Focal Length	F No.	Working Distance	Weight
DL0828UC-MPY	1/1.1"	8mm	F2.8	0.1m-Inf.	178g
DL1224UC-MPY		12mm	F2.4	0.1m-Inf.	163g
DL1623UC-MPY		16mm	F2.3	0.11m-Inf.	173g
DL2523UC-MPY		25mm	F2.3	0.12m-Inf.	166g
DL3525UC-MPY		35mm	F2.5	0.16m-Inf.	160g
DL5028UC-MPY		50mm	F2.8	0.2m-Inf.	173g

- 
- 1/1.1" 12MP
- MOTORIZED
- FIX FLOATING



Easily change the focus point for workpieces at different heights



Control Interface	USB2.0	USB2.0	USB2.0
Power mode	Bus powerd (500mA)	Bus powerd (500mA)	Bus powerd (500mA)
Connector	USB TypeA	USB TypeA	USB TypeA

NEW Lens Connect

BH Series

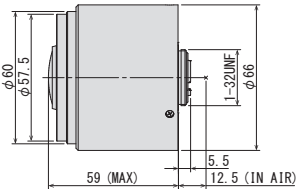
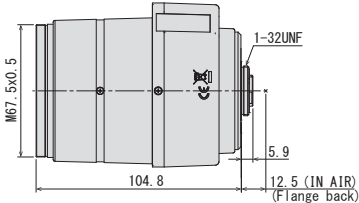
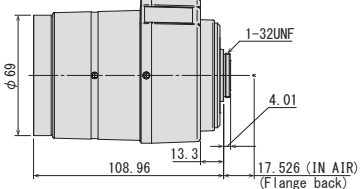
HIGH-RESOLUTION VARI-FOCAL REMOTE CONTROL LENS

Model No.	Format	Focal Length	F No.	Resolution	Working Distance	Weight
EL3Z0416UCS-MPWIR	1/1.8"	4-10mm	F1.6	5MP	0.2m-Inf.	161g
EL6Z0915UCS-MPWIR	1/1.8"	9-50mm	F1.5	5MP	3m-Inf.	299g
VL6Z1626UC-MPYIR	1.1"	16-96mm	F2.6	12MP	3m-Inf.	330g

- Motorized lens that can be operated easily with a single USB cable
- Focus can be controlled via USB
- Fast speed focus control
- Ultra-high-resolution lens, suitable for 1.1" · 1/1.8"

1.1" MOTORIZED

1/1.8" VARI IR

	EL3Z0416UCS-MPWIR	EL6Z0915UCS-MPWIR	VL6Z1626UC-MPYIR
	 	 	 
Focal Length	4.0mm - 10mm	9mm - 50mm	16mm - 96mm
Max. Image Format	7.1mm × 5.4mm (φ 8.9mm)	7.1mm × 5.4mm (φ 8.9mm)	14.2mm × 10.4mm (φ 17.6mm)
F-Number	Wide F1.6 - F16C	F1.5 - F16C	F2.6 - F16C
	Tele F2.7 - F16C	F1.6 - F16C	F2.7 - F16C
Control	Iris Motorized	Motorized	Motorized
	Focus Motorized	Motorized	Motorized
	Zoom Motorized	Motorized	Motorized
Angle of View	D 138.1°~52.9° H 1/1.8" 104.8°~42.2° V 76.3°~31.6°	1/3" 86.5°~35.5° 1/2" 68.1°~28.4° 50.5°~21.3°	120.3°~47.5° 1/1.8" 52.5°~10.2° 1/3" 35.9°~7.0° 1/2" 28.8°~5.7° 21.7°~4.3°
	1/1.8" 104.8°~42.2° 76.3°~31.6°	1/3" 86.5°~35.5° 68.1°~28.4° 50.5°~21.3°	120.3°~47.5° 1/1.8" 52.5°~10.2° 1/3" 35.9°~7.0° 1/2" 28.8°~5.7° 21.7°~4.3°
	1/1.8" 104.8°~42.2° 76.3°~31.6°	1/3" 86.5°~35.5° 68.1°~28.4° 50.5°~21.3°	120.3°~47.5° 1/1.8" 52.5°~10.2° 1/3" 35.9°~7.0° 1/2" 28.8°~5.7° 21.7°~4.3°
Min. Objective Distance	0.2m from front of lens	3m from front of lens	3m from front of lens
Operating Temperature	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C
Back Focal Length	Wide 8.5mm (In Air)	9.2mm (In Air)	13.9mm (In Air)
	tele 8.5mm (In Air)	9.2mm (In Air)	13.9mm (In Air)
Flange Back Length	12.5mm (In Air)	12.5mm (In Air)	17.526mm (In Air)
Mount	CS-Mount	CS-Mount	C-Mount
Filter Size	M55 P=0.75mm (With VM0418)*	M67 P=0.75mm (With VM0918)*	M67 P=0.75mm
Tripod Screw		1/4-20UNC	1/4-20UNC
Weight	161g	299g	330g
Control Interface	USB2.0	USB2.0	USB2.0
Power mode	Bus powerd (500mA)	Bus powerd (500mA)	Bus powerd (500mA)
Connector	USB TypeA	USB TypeA	USB TypeA

*Adapting for between 6mm and 10mm.
*When using filters, lens requires VM0418 (sold separately).

Vision Systems Design
2021 Innovators Awards
SILVER HONOREE

2021 Vision Systems Design
Innovators Awards
SILVER HONOREE

Lens Connect[®] SERIES

Motorized FA lens that can be operated easily with a single USB cable

- Focus, Iris, and Zoom can be controlled via USB
- Easy operation in areas where manual adjustment is not possible
- The stepping motor makes precise control possible
- Plug-and-play for easy deployment

BH series



RF series



NEW

MPT Series

1.4" 45 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Distortion	Weight
F1228-MPT	1.4"	12mm	F2.8	0.15m - Inf.	0.13%(y=11.55)	205g
F1628-MPT		16mm	F2.8	0.15m - Inf.	0.06%(y=11.55)	187g
F2524-MPT		25mm	F2.4	0.15m - Inf.	0.06%(y=11.55)	152g
F3526-MPT		35mm	F2.6	0.15m - Inf.	0.01%(y=11.55)	122g
F5026-MPT		50mm	F2.6	0.25m - Inf.	-0.03%(y=11.55)	151g

- Ultra-high-resolution lens, suitable for 1.4" 45-megapixel sensor
- Enlarged image circle up to Ø23.1mm (1.4" sensor)
- The most compact, lightweight lens design on the machine vision market
- The newest optical design achieves much higher relative illuminance compared to conventional models despite a large format 1.4" sensor (Ø23.1mm)
- The floating design achieves an ultra-high-resolution from near focus to infinity
- Vibration resistance up to 5G

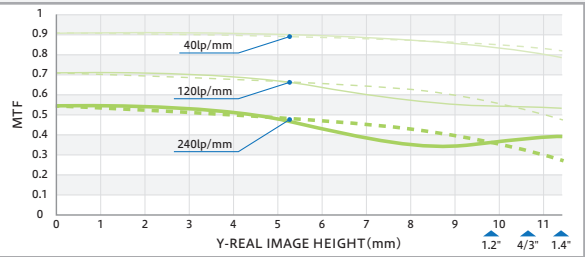
1.4"

45MP

MANUAL

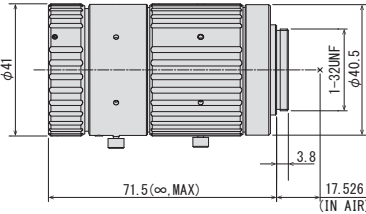
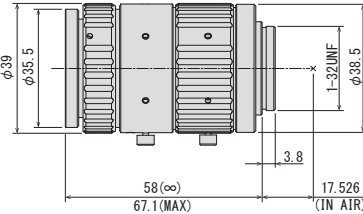
FIX

FLOATING



	F1228-MPT						F1628-MPT						F2524-MPT																									
Focal Length		12mm						16mm						25mm																								
Max. Aperture Ratio		1:2.8						1:2.8						1:2.4																								
Image Circle Diameter		19.08mm × 13.03mm (φ 23.1mm)						19.08mm × 13.03mm (φ 23.1mm)						19.08mm × 13.03mm (φ 23.1mm)																								
Operation Range	Iris	F2.8 - F16.0						F2.8 - F16.0						F2.4 - F16.0																								
	Focus	0.15m - Inf.						0.15m - Inf.						0.15m - Inf.																								
Control	Iris	Manual						Manual						Manual																								
	Focus	Manual						Manual						Manual																								
Angle of View	D			86.1°		76.6°			71.6°					49.6°		42.4°		39.0°																				
	H	1.4"		76.0°	1.2"	61.9°		1.1"	60.4°	1.4"		60.4°	1.2"	48.1°		1.1"	46.9°	1.4"		41.9°	1.2"	32.7°		1.1"	31.8°													
	V			56.2°		54.8°			46.1°			43.4°			42.2°			35.2°			29.3°			28.5°			23.6°											
Operating Temperature		-10°C ~ +50°C						-10°C ~ +50°C						-10°C ~ +50°C																								
Optical Distortion		1.4"	0.13	1.2"	-0.98	1.1"	-1.23	1.4"	0.06	1.2"	-0.43	1.1"	-0.54	1.4"	0.06	1.2"	-0.34	1.1"	-0.39																			
Back Focal Length		10.8mm						12.7mm						18.1mm																								
Flange Back Length		17.526mm						17.526mm						17.526mm																								
Mount		C-Mount						C-Mount						C-Mount																								
Filter Size		M72 P=0.75mm*						M52 P=0.75mm*						M34 P=0.5mm																								
Dimensions		φ56.5mm × 64.8mm φ75mm × 66.1mm (with TM-1243)						φ44.5mm × 64.8mm φ54mm × 66.4mm (with TM-1643)						φ39mm × 66mm																								
Weight		205g						187g						152g																								

*When using filters, lens requires TM-1243(for 12mm)/TM-1643(for 16mm) (sold separately.) For more detail, please refer to P.34.

	F3526-MPT						F5026-MPT						
													
													
Focal Length	35mm						50mm						
Max. Aperture Ratio	1:2.6						1:2.6						
Image Circle Diameter	19.08mm × 13.03mm (φ 23.1mm)						19.08mm × 13.03mm (φ 23.1mm)						
Operation Range	Iris	F2.6 - F16.0					F2.6 - F16.0						
	Focus	0.15m - Inf.					0.25m - Inf.						
Control	Iris	Manual					Manual						
	Focus	Manual					Manual						
Angle of View	D	1.4"	36.6°	1.2"	30.9°	1.1"	28.3°	1.4"	26.1°	1.2"	21.9°	1.1"	20.0°
	H		30.6°		23.6°		23.0°		21.7°		16.7°		16.2°
	V		21.1°		20.5°		16.9°		14.9°		14.4°		11.9°
Operating Temperature	-10°C ~ +50°C						-10°C ~ +50°C						
Optical Distortion	1.4"	0.01	1.2"	-0.05	1.1"	-0.06	1.4"	-0.02	1.2"	-0.03	1.1"	-0.03	
Back Focal Length	23.1mm						14.2mm						
Flange Back Length	17.526mm						17.526mm						
Mount	C-Mount						C-Mount						
Filter Size	M34 P=0.5mm						M30.5 P=0.5mm						
Dimensions	φ39mm × 58mm						φ41mm × 71.5mm						
Weight	122g						151g						



MPY Series

1.1" 24 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
V0828-MPY2	1.1"	8mm	F2.8-F16	0.2m-Inf.	157g
V1228-MPY2		12mm		0.3m-Inf.	97g
V1628-MPY2		16mm		0.3m-Inf.	89g
V2528-MPY		25mm		0.3m-Inf.	78g
V3528-MPY		35mm		0.3m-Inf.	103g
V5028-MPY		50mm		0.5m-Inf.	107g

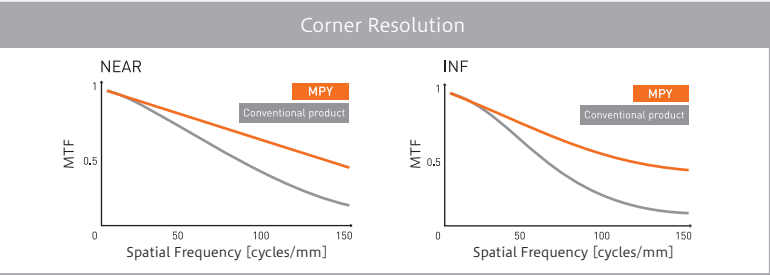
- Ultra-high-resolution lens, suitable for 1.1" 24 megapixel sensor
- Enlarged image circle up to Ø17.6mm (1.1" sensor)
- The most compact, lightweight lens design on the machine vision market
- The floating design achieves an ultra-high-resolution from near focus to infinity
- Vibration resistance up to 5G

1.1"24MP

MANUAL

FIX

FLOATING



V0828-MPY2

V1228-MPY2

V1628-MPY2

*There is no filter mount on the top of the lens.
When using filters, lens requires VM0811 or VM0810 (sold separately).
For more detail, please refer to P.34.

V2528-MPY

V3528-MPY

V5028-MPY

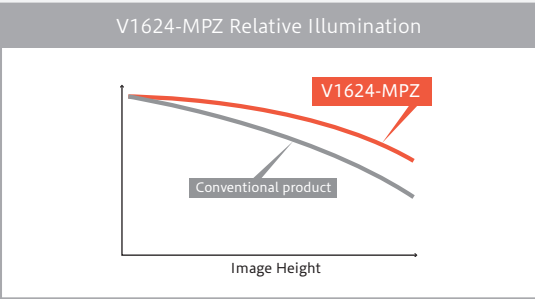
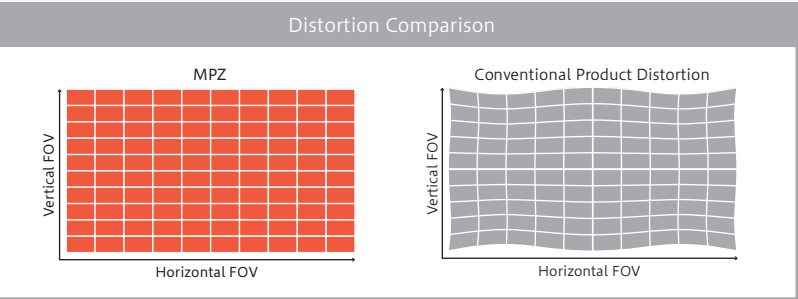
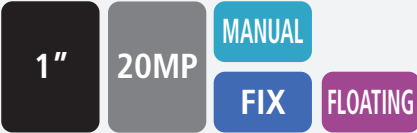


MPZ Series

1" 20 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
V0826-MPZ	1"	8mm	F2.6-F16	0.1m-Inf.	203g
V1226-MPZ		12mm	F2.6-F16	0.1m-Inf.	98g
V1624-MPZ		16mm	F2.4-F16	0.1m-Inf.	108g
V2520-MPZ		25mm	F2.0-F16	0.15m-Inf.	73g
V3522-MPZ		35mm	F2.2-F16	0.2m-Inf.	118g
V5024-MPZ		50mm	F2.4-F16	0.2m-Inf.	138g
V7531-MPZ		75mm	F3.1-F16	0.25m-Inf.	176g

- Ultra-high resolution lens, which is suitable for 1" 20 megapixel sensor
- Much lower distortion design for all models is beneficial for a variety of machine vision applications
- Has the newest optical design, which has a much higher relative illuminance compared to conventional models, despite having a large format 1" sensor
- Vibration resistance up to 5G



	V0826-MPZ	V1226-MPZ	V1624-MPZ
Focal Length	8mm	12mm	16mm
Max. Aperture Ratio	1:2.6	1:2.6	1:2.4
Max. Image Format	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)
Operation Range	Iris F2.6 - F16.0 Focus 0.1m - Inf.	Iris F2.6 - F16.0 Focus 0.1m - Inf.	Iris F2.4 - F16.0 Focus 0.1m - Inf.
Control	Iris Manual Focus Manual	Iris Manual Focus Manual	Iris Manual Focus Manual
Angle of View	D 88.8° H 76.9° V 61.5°	D 67.4° H 56.7° V 44.1°	D 53.2° H 43.8° V 33.6°
Operating Temperature	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C
Optical Distortion	1" -0.8% 2/3" -2.1% 1/1.8" -1.9%	1" 0.0% 2/3" -1.1% 1/1.8" -1.0%	1" 0.0% 2/3" -0.4% 1/1.8" -0.4%
Back Focal Length	10.6mm	10.6mm	10.7mm
Flange Back Length	17.526mm	17.526mm	17.526mm
Mount	C-Mount	C-Mount	C-Mount
Filter Size	M82 P=0.5mm*	M37.5 P=0.5mm	M35.5 P=0.5mm
Dimensions	φ 69.5mm × 52.93mm φ 85.0mm × 53.83mm (with ZM0810)	φ 39mm × 43.5mm	φ 39.5mm × 47mm
Weight	203g	98g	108g

*There is no filter mount on the top of the lens.
When using filters, lens requires ZM0810 (sold separately).
For more detail, please refer to P.34.

	V2520-MPZ	V3522-MPZ	V5024-MPZ	V7531-MPZ
Focal Length	25mm	35mm	50mm	75mm
Max. Aperture Ratio	1:2.0	1:2.2	1:2.4	1:3.1
Max. Image Format	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)	12.8mm × 9.6mm (φ 16mm)
Operation Range	Iris F2.0 - F16.0 Focus 0.15m - Inf.	Iris F2.2 - F16.0 Focus 0.2m - Inf.	Iris F2.4 - F16.0 Focus 0.2m - Inf.	Iris F3.1 - F16.0 Focus 0.25m - Inf.
Control	Iris Manual Focus Manual	Iris Manual Focus Manual	Iris Manual Focus Manual	Iris Manual Focus Manual
Angle of View	D 35.5° H 28.8° V 21.8°	D 24.9° H 20.0° V 15.1°	D 18.2° H 14.6° V 11.0°	D 12.2° H 9.8° V 7.3°
Operating Temperature	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C	-10° C ~ +50° C
Optical Distortion	1" 0.0% 2/3" 0.0% 1/1.8" 0.0%	1" 0.0% 2/3" 0.0% 1/1.8" 0.0%	1" 0.0% 2/3" 0.0% 1/1.8" 0.0%	1" 0.0% 2/3" 0.0% 1/1.8" 0.0%
Back Focal Length	9.1mm	9.7mm	11.1mm	12.0mm
Flange Back Length	17.526mm	17.526mm	17.526mm	17.526mm
Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Size	M35.5 P=0.5mm	M34 P=0.5mm	M30.5 P=0.5mm	M30.5 P=0.5mm
Dimensions	φ 37.5mm × 35.5mm	φ 39.5mm × 55.7mm	φ 69.5mm × 52.93mm	φ 42.0mm × 79.8mm
Weight	73g	118g	138g	176g



MPW3 Series

2/3" 6 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
M0528-MPW3	2/3"	5mm	F2.8-F16	0.1m-Inf.	163g
M0828-MPW3		8mm		0.1m-Inf.	58g
M1228-MPW3		12mm		0.1m-Inf.	60g
M1628-MPW3		16mm		0.25m-Inf.	37g
M2528-MPW3		25mm		0.2m-Inf.	42g
M3528-MPW3		35mm		0.25m-Inf.	48g
M5028-MPW3		50mm		0.3m-Inf.	65g
M7528-MPW3		75mm		0.4m-Inf.	102g

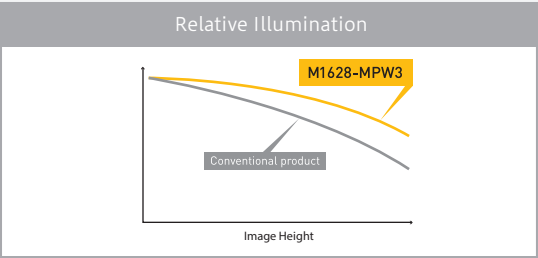
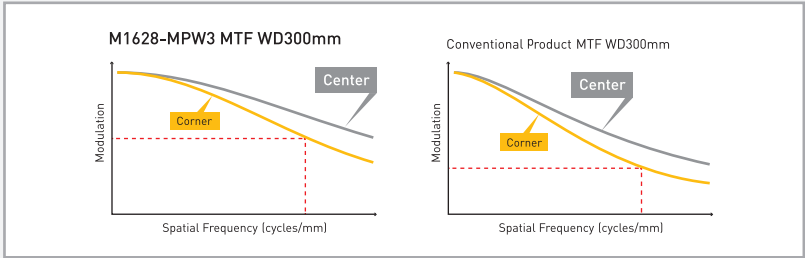
- Suitable for 2/3" 6 megapixel
- A variety of focal lengths from 5mm to 75mm
- Maintains high performance at long WD
- Has an ultra-compact Ø29 diameter with a nearly-identical mechanical length
- Vibration resistance up to 5G

2/3"

6MP

MANUAL

FIX



M0528-MPW3



M0828-MPW3



M1228-MPW3



M1628-MPW3



Focal Length	5mm				8mm				12mm				16mm			
Max. Aperture Ratio	1:2.8				1:2.8				1:2.8				1:2.8			
Max. Image Format	8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)			
Operation Range	Iris F2.8 - F16.0				F2.8 - F16.0				F2.8 - F16.0				F2.8 - F16.0			
	Focus 0.1m - Inf.				0.1m - Inf.				0.1m - Inf.				0.25m - Inf.			
Control	Iris Manual				Manual				Manual				Manual			
	Focus Manual				Manual				Manual				Manual			
Angle of View	D	94.6°	83.8°	71.4°	68.5°	57.7°	47.2°	49.3°	40.8°	33.0°	37.8°	31.4°	25.0°	30.7°	25.3°	20.2°
	H	2/3" 83.2°	1/1.8" 71.6°	1/2.5" 59.8°	2/3" 57.0°	1/1.8" 47.3°	1/2.5" 38.5°	2/3" 40.3°	1/1.8" 33.1°	1/2.5" 26.7°	2/3" 30.7°	1/1.8" 25.3°	1/2.5" 20.2°	2/3" 23.3°	1/1.8" 19.2°	1/2.5" 15.3°
	V	67.5°	58.3°	46.6°	44.2°	37.5°	29.4°	30.8°	26.0°	20.3°	23.3°	19.2°	15.3°			
Operating Temperature	-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C			

Optical Distortion	2/3" 0.03%	1/1.8" -2.14%	1/2.5" -2.72%	2/3" -1.80%	1/1.8" -1.68%	1/2.5" -1.28%	2/3" -0.10%	1/1.8" 0.04%	1/2.5" 0.00%	2/3" 0.47%	1/1.8" 0.15%	1/2.5" 0.03%
Back Focal Length	9.2mm			10.1mm			9.2mm			10.3mm		
Flange Back Length	17.526mm			17.526mm			17.526mm			17.526mm		
Mount	C-Mount			C-Mount			C-Mount			C-Mount		
Filter Size	M72 P=0.75mm			M30.5 P=0.5mm			M27 P=0.5mm			M27 P=0.5mm		
Dimensions	φ 75mm × 54mm			φ 32mm × 35.5mm			φ 29mm × 43.5mm			φ 29mm × 29mm		
Weight	163g			58g			60g			37g		

M2528-MPW3



M3528-MPW3



M5028-MPW3



M7528-MPW3



Focal Length	25mm				35mm				50mm				75mm			
Max. Aperture Ratio	1:2.8				1:2.8				1:2.8				1:2.8			
Max. Image Format	8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)			
Operation Range	Iris F2.8 - F16.0				F2.8 - F16.0				F2.8 - F16.0				F2.8 - F16.0			
	Focus 0.2m - Inf.				0.25m - Inf.				0.3m - Inf.				0.4m - Inf.			
Control	Iris Manual				Manual				Manual				Manual			
	Focus Manual				Manual				Manual				Manual			
Angle of View	D	24.6°	20.3°	16.1°	17.9°	14.4°	9.8°	12.5°	10.2°	8.1°	8.4°	6.9°	5.4°	6.7°	5.5°	4.3°
	H	2/3" 19.9°	1/1.8" 16.3°	1/2.5" 13.0°	2/3" 14.3°	1/1.8" 11.7°	1/2.5" 7.8°	2/3" 10.0°	1/1.8" 8.2°	1/2.5" 6.5°	2/3" 6.7°	1/1.8" 5.5°	1/2.5" 4.3°	2/3" 5.0°	1/1.8" 4.1°	1/2.5" 3.3°
	V	15.0°	12.3°	9.8°	10.8°	8.7°	5.9°	7.5°	6.2°	4.9°	5.0°	4.1°	3.3°			
Operating Temperature	-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C			

Optical Distortion	2/3" 0.77%	1/1.8" 0.49%	1/2.5" 0.29%	2/3" 0.06%	1/1.8" 0.04%	1/2.5" 0.03%	2/3" 0.00%	1/1.8" 0.00%	1/2.5" 0.00%	2/3" 0.33%	1/1.8" 0.21%	1/2.5" 0.12%
Back Focal Length	11.5mm			18.0mm			26.3mm			14.6mm		
Flange Back Length	17.526mm			17.526mm			17.526mm			17.526mm		
Mount	C-Mount			C-Mount			C-Mount			C-Mount		
Filter Size	M27 P=0.5mm			M27 P=0.5mm			M27 P=0.5mm			M34 P=0.5mm		
Dimensions	φ 29mm × 31.5mm			φ 29mm × 38.5mm			φ 29mm × 56mm			φ 36mm × 75mm		
Weight	42g			48g			65g			102g		



MP2 Series

2/3" 1.5 MEGAPIXEL FIXED FOCAL LENS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
H0514-MP2	2/3"	5mm	F1.4 - F16C	0.1m - 0.9m	102g
M0814-MP2		8mm	F1.4 - F16C	0.1m - Inf.	63g
M1214-MP2		12mm	F1.4 - F16C	0.15m - Inf.	62g
M1614-MP2		16mm	F1.4 - F16C	0.3m - Inf.	60g
M2514-MP2		25mm	F1.4 - F16C	0.3m - Inf.	71g
M3514-MP		35mm	F1.4 - F16C	0.3m - Inf.	87g
M5018-MP2		50mm	F1.8 - F16C	0.5m - Inf.	85g
M7528-MP		75mm	F2.8 - F16C	0.3m - Inf.	113g

- Eight focal lengths in series: 5mm, 8mm, 12mm, 16mm, 25mm, 35mm, 50mm, and 75mm
- Compatible with 2/3" format sensor (H0514-MP2 : 1/2")
- Low distortion (less than 1.0%)
- Locking set screws for focus and iris
- Compact design - diameter 33.5mm (H0514-MP2 : 44.5mm)

1/2"

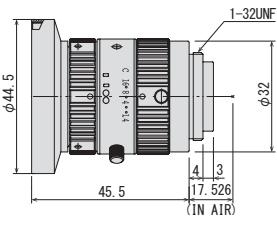
1.5MP

MANUAL

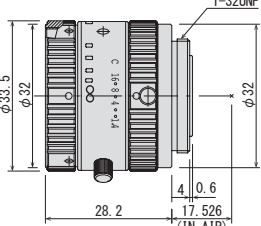
2/3"

FIX

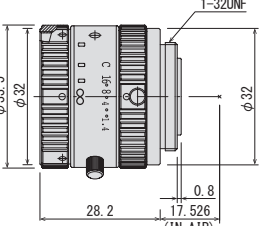
H0514-MP2



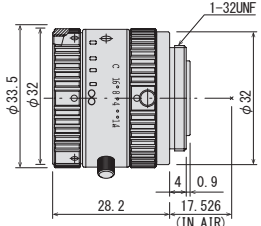
M0814-MP2



M1214-MP2

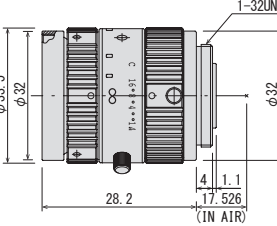


M1614-MP2

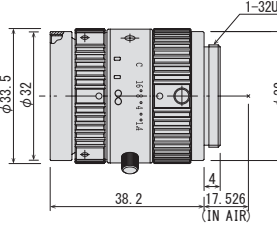


Focal Length	5mm				8mm				12mm				16mm					
Max. Aperture Ratio	1:1.4				1:1.4				1:1.4				1:1.4					
Max. Image Format	6.4mm × 4.8mm (φ 8mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)					
Operation Range	Iris F1.4 - F16C				F1.4 - F16C				F1.4 - F16C				F1.4 - F16C					
	Focus 0.1m - 0.9m				0.1m - Inf.				0.15m - Inf.				0.3m - Inf.					
Control	Iris Manual				Manual				Manual				Manual					
	Focus Manual				Manual				Manual				Manual					
Angle of View	D	76.7°		62.3°	2/3"	67.1°	51.9°		2/3"	49.2°	37.0°		2/3"	38.0°	28.2°			
	H	65.5°		51.4°		56.3°	42.5°			40.4°	30.0°			30.8°	22.7°			
	V	51.4°		39.5°		43.7°	32.4°			30.8°	22.7°			23.4°	17.1°			
Operating Temperature	-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C					
Optical Distortion	1/2"	-0.48%	1/3"	-2.26%	2/3"	-0.1%	1/2"	-1.1%	2/3"	-0.1%	1/2"	-0.35%	2/3"	-0.1%	1/2"	-0.3%		
Back Focal Length	10.8mm (WD=900mm)				13.1mm (Inf)				13.1mm (Inf)				13.1mm (Inf)					
Flange Back Length	17.526mm				17.526mm				17.526mm				17.526mm					
Mount	C-Mount				C-Mount				C-Mount				C-Mount					
Filter Size	M43 P=0.75mm				M30.5 P=0.5mm				M30.5 P=0.5mm				M30.5 P=0.5mm					
Dimensions	φ 44.5mm × 45.5mm				φ33.5mm × 28.2mm				φ33.5mm × 28.2mm				φ33.5mm × 28.2mm					
Weight	102g				63g				62g				60g					

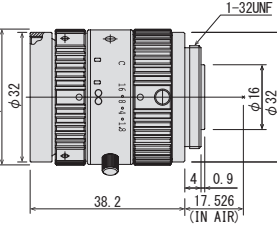
M2514-MP2



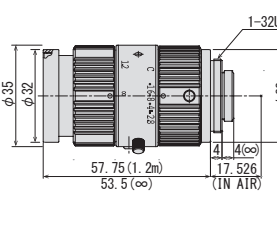
M3514-MP



M5018-MP2



M7528-MP



Focal Length	25mm				35mm				50mm				75mm					
Max. Aperture Ratio	1:1.4				1:1.4				1:1.8				1:2.8					
Max. Image Format	8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)				8.8mm × 6.6mm (φ 11mm)					
Operation Range	Iris F1.4 - F16C				F1.4 - F16C				F1.8 - F16C				F2.8 - F16C					
	Focus 0.3m - Inf.				0.3m - Inf.				0.5m - Inf.				0.3m - Inf. (※)					
Control	Iris Manual				Manual				Manual				Manual					
	Focus Manual				Manual				Manual				Manual					
Angle of View	D	24.9°		18.2°	2/3"	17.3°	12.6°		2/3"	13.1°	9.5°		2/3"	8.5°	6.2°			
	H	20.0°		14.6°		13.9°	10.1°			10.5°	7.6°			6.8°	5.0°			
	V	15.1°		11.0°		10.4°	7.6°			7.9°	5.7°			5.1°	3.7°			
Operating Temperature	-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C				-10° C ~ +50° C					
Optical Distortion	2/3"	-0.3%	1/2"	-0.1%	2/3"	-0.8%	1/2"	-0.4%	2/3"	-0.3%	1/2"	-0.2%	2/3"	-0.4%	1/2"	-0.2%		
Back Focal Length	13.1mm (Inf)				17.1mm (WD=400mm)				13.1mm (Inf)				21.5mm (WD=400mm)					
Flange Back Length	17.526mm				17.526mm				17.526mm				17.526mm					
Mount	C-Mount				C-Mount				C-Mount				C-Mount					
Filter Size	M30.5 P=0.5mm				M30.5 P=0.5mm				M30.5 P=0.5mm				M30.5 P=0.5mm					
Dimensions	φ33.5mm × 36.0mm				φ 33.5mm × 38.2mm				φ 33.5mm × 38.2mm				φ 35mm × 57.75mm					
Weight	71g				87g				85g				113g					

*Factory setting is 0.3-1.2m. Focus can be adjusted to infinity by removing "Focus Limit Screw".



NEW

ViSWIR HYPER APO

VISIBLE + SWIR IMAGE SENSOR FIXED FOCAL LENS

Model No.	Format	Focal Length	F-No.	Working Distance	Distortion	Weight
M0818-APVSW	2/3"	8mm	F1.8	0.1m - Inf.	0.4%(y=5.5)	163g
M1218-APVSW		12mm		0.1m - Inf.	0.0%(y=5.5)	133g
M1618-APVSW		16mm		0.1m - Inf.	0.0%(y=5.5)	136g
M2518-APVSW		25mm		0.1m - Inf.	0.0%(y=5.5)	140g

- Dedicated design for next generation Visible+SWIR InGaAs image sensor (IMX990/IMX991)
- Hyper-Apochromat design with fully correct focus shift between 400-1700nm
- Floating-focus mechanism realizes axial chromatic aberration and chromatic aberration of magnification at all WD and wavelengths
- High transmittance at entire wavelength of 400nm-1700nm by adopting hyper wideband AR coat
- The NIR-absorbent coating prevents light scattering and provides clear image quality

2/3" 5MP Visible+SWIR MANUAL FLOATING Apochromat FIX

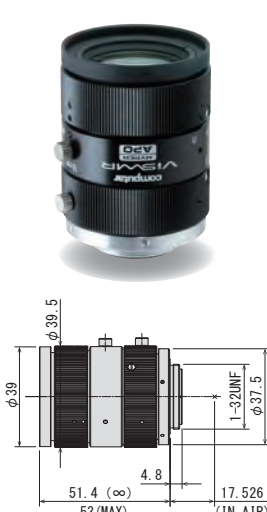
M0818-APVSW



M1218-APVSW



M1618-APVSW



M2518-APVSW



Focal Length		8mm						12mm						16mm						25mm					
Max. Aperture Ratio		1:1.8						1:1.8						1:1.8						1:1.8					
Max. Image Format		8.8mm × 6.6mm (φ 11mm)						8.8mm × 6.6mm (φ 11mm)						8.8mm × 6.6mm (φ 11mm)						8.8mm × 6.6mm (φ 11mm)					
Wavelength Range		400nm - 1700nm						400nm - 1700nm						400nm - 1700nm						400nm - 1700nm					
Operation Range	Iris	F1.8 - F16.0						F1.8 - F16.0						F1.8 - F16.0						F1.8 - F16.0					
	Focus	0.1m - Inf.						0.1m - Inf.						0.1m - Inf.						0.1m - Inf.					
Control	Iris	Manual						Manual						Manual						Manual					
	Focus	Manual						Manual						Manual						Manual					
Angle of View	D	IMX990	53.2°	IMX991	28.1°		67.3°	IMX990	37.9°	IMX991	19.5°		49.3°	IMX990	28.8°	IMX991	14.6°		37.9°	IMX990	18.6°	IMX991	9.4°		24.8°
	H	6.40mm ×	42.7°	3.20mm ×	22.1°	2/3"	56.4°	6.40mm ×	30.0°	3.20mm ×	15.2°	2/3"	40.4°	6.40mm ×	22.7°	3.20mm ×	11.4°	2/3"	30.9°	6.40mm ×	14.6°	3.20mm ×	7.3°	2/3"	20.0°
	V	5.12mm	34.7°	2.56mm	17.7°		43.9°	5.12mm	24.2°	2.56mm	12.2°		30.9°	5.12mm	18.2°	2.56mm	9.2°		23.4°	5.12mm	11.7°	2.56mm	5.9°		15.1°
Operating Temperature		-10° C ~ +50° C						-10° C ~ +50° C						-10° C ~ +50° C						-10° C ~ +50° C					
Optical Distortion		2/3"	0.4%	1/2"	-0.4%			2/3"	0.0%	1/2"	-0.3%			2/3"	0.0%	1/2"	-0.3%			2/3"	0.0%	1/2"	-0.1%		
Back Focal Length		11.5mm						12.5mm						14.2mm						11.9mm					
Flange Back Length		17.526mm						17.526mm						17.526mm						17.526mm					
Mount		C-Mount						C-Mount						C-Mount						C-Mount					
Filter Size		M46 P=0.75mm						M37.5 P=0.5mm						M37.5 P=0.5mm						M37.5 P=0.5mm					
Dimensions		φ49mm×54.7mm						φ39.5mm×52.0mm						φ39.5mm×52.0mm						φ39.5mm×59.2mm					
Weight		163g						133g						136g						140g					

inspect
award 2022
winner
1.
Category
Vision

inspect
award 2022
1st Place
Winner



VisionSystems
**Innovators
Awards**
2021
GOLD HONOREE

VisionSystems
**Innovators
Awards**
2021
GOLD
Honoree

Hyper Apo series

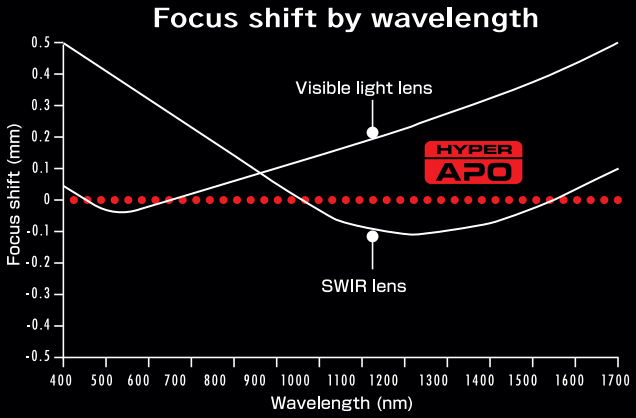
ViSWIR

**HYPER
APO**



Compatible with the latest InGaAs sensor cameras

- The latest lens fully compatible with Sony Semiconductor Solutions / IMX990 and IMX991
- Full correction of chromatic aberration from visible light (400 nm) to near-infrared (1700 nm)
- Supports Hyperspectral and multispectral imaging
- ViSWIR light absorbent coating prevents light scattering and provides clear image quality



Lite series
ViSWIR
Lite

- ▶ High transmittance from visible light (400 nm) to near-infrared (1700 nm)
- ▶ Attractive Pricing for customers using single band wavelength
- ▶ ViSWIR light absorbent coating provides excellent picture quality and clarity

Focal length line-up

- 5mm/8mm
- 12mm/16mm
- 25mm/35mm
- 50mm

Ultra-high resolution images from visible light (400 nm) to near-infrared (1700 nm) that are always in-focus.

computar



NEW

VISWIR Lite

VISIBLE + SWIR IMAGE SENSOR FIXED FOCAL LENS

Model No.	Format	Focal Length	F-No.	Working Distance	Distortion	Weight
H0514-VSW	1/2"	5mm	F1.4	0.1m - Inf.	-0.48%(y=4.0)	102g
M0814-VSW	2/3"	8mm		0.1m - Inf.	-0.1%(y=5.5)	62g
M1214-VSW		12mm		0.15m - Inf.	-0.1%(y=5.5)	61g
M1614-VSW		16mm		0.3m - Inf.	-0.1%(y=5.5)	60g
M2514-VSW		25mm		0.3m - Inf.	-0.3%(y=5.5)	71g
M3514-VSW		35mm	F1.8	0.3m - Inf.	-0.8%(y=5.5)	87g
M5018-VSW		50mm		0.5m - Inf.	-0.3%(y=5.5)	85g

- High transmittance at entire wavelength of 400nm-1700nm by adopting hyper wideband AR coat
- Outstanding cost-performance for single-wavelength lighting and narrow-band imaging
- Series includes 5mm, 8mm, 12mm, 16mm, 25mm, 35mm, and 50mm focal lengths
- The NIR-absorbent coating prevents light scattering and provides clear image quality
- Compact design

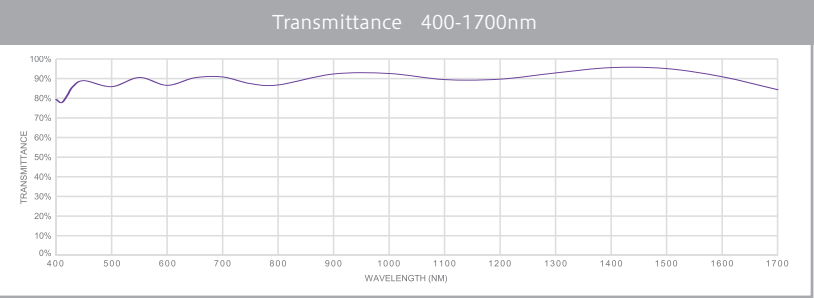
1/2"

Visible +SWIR

MANUAL

2/3"

FIX



H0514-VSW

M0814-VSW

M1214-VSW

M1614-VSW

Focal Length	5mm	8mm	12mm	16mm
Max. Aperture Ratio	1:1.4	1:1.4	1:1.4	1:1.4
Max. Image Format	6.40mm × 5.12mm (φ 8.20mm)	8.8mm × 6.6mm (φ 11mm)	8.8mm × 6.6mm (φ 11mm)	8.8mm × 6.6mm (φ 11mm)
Wavelength Range	400nm - 1700nm	400nm - 1700nm	400nm - 1700nm	400nm - 1700nm
Operation Range	Iris F1.4 - 16C Focus 0.1m - 0.9m	F1.4 - F16C 0.1m - Inf.	F1.4 - F16C 0.15m - Inf.	F1.4 - F16C 0.3m - Inf.
Control	Iris Manual Focus Manual	Manual	Manual	Manual
Angle of View	D IMX990 77.8° H 6.40mm x 65.5° V 5.12mm 54.5°	IMX991 44.6° 3.20mm x 35.3° 2/3" 65.5° IMX990 53.0° 6.40mm x 42.5° 3.20mm x 21.9° 2/3" 56.3° IMX991 27.9° 3.20mm x 15.2° 2/3" 40.4° IMX990 67.1° 6.40mm x 30.0° 3.20mm x 12.2° 2/3" 43.7°	IMX990 37.8° 6.40mm x 30.0° 3.20mm x 15.2° 2/3" 40.4° IMX991 19.4° 3.20mm x 12.2° 2/3" 30.8°	IMX990 28.8° 6.40mm x 22.7° 3.20mm x 9.2° 2/3" 24.9° IMX991 14.6° 3.20mm x 11.4° 2/3" 20.0° IMX990 38.0° 6.40mm x 18.2° 3.20mm x 9.2° 2/3" 23.4°
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C

Optical Distortion	1/2"	-0.48%	1/3"	-2.26%	2/3"	-0.1%	1/2"	-1.1%	2/3"	-0.1%	1/2"	-0.35%	2/3"	-0.1%	1/2"	-0.3%
Back Focal Length	10.8mm				13.1mm				13.1mm				13.1mm			
Flange Back Length	17.526mm				17.526mm				17.526mm				17.526mm			
Mount	C-Mount				C-Mount				C-Mount				C-Mount			
Filter Size	M43 P=0.75mm				M30.5 P=0.5mm				M30.5 P=0.5mm				M30.5 P=0.5mm			
Dimensions	φ44.5mm × 45.5mm				φ33.5mm × 28.2mm				φ33.5mm × 28.2mm				φ33.5mm × 28.2mm			
Weight	102g				62g				61g				60g			

M2514-VSW

M3514-VSW

M5018-VSW

Focal Length	25mm	35mm	50mm
Max. Aperture Ratio	1:1.4	1:1.4	1:1.8
Max. Image Format	8.8mm × 6.6mm (φ 11mm)	8.8mm × 6.6mm (φ 11mm)	8.8mm × 6.6mm (φ 11mm)
Wavelength Range	400nm - 1700nm	400nm - 1700nm	400nm - 1700nm
Operation Range	Iris F1.4 - F16C Focus 0.3m - Inf.	F1.4 - F16C 0.3m - Inf.	F1.8 - F16C 0.5m - Inf.
Control	Iris Manual Focus Manual	Manual	Manual
Angle of View	D IMX990 18.6° H 6.40mm x 14.6° V 5.12mm 11.7°	IMX991 9.4° 3.20mm x 7.3° 2/3" 24.9° IMX990 13.7° 6.40mm x 10.7° 3.20mm x 8.6° 2/3" 17.3° IMX991 6.9° 3.20mm x 5.4° 2/3" 13.9° IMX990 9.8° 6.40mm x 7.6° 3.20mm x 6.1° 2/3" 13.1° IMX991 4.9° 3.20mm x 3.8° 2/3" 10.5° IMX990 13.1° 6.40mm x 10.5° 3.20mm x 7.9° 2/3" 7.9°	IMX990 13.1° 6.40mm x 10.5° 3.20mm x 7.9° 2/3" 7.9°
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C

Optical Distortion	2/3"	-0.3%	1/2"	-0.1%	2/3"	-0.8%	1/2"	-0.39%	2/3"	-0.3%	1/2"	-0.2%
Back Focal Length	13.1mm				17.1mm				13.1mm			
Flange Back Length	17.526mm				17.526mm				17.526mm			
Mount	C-Mount				C-Mount				C-Mount			
Filter Size	M30.5 P=0.5mm				M30.5 P=0.5mm				M30.5 P=0.5mm			
Dimensions	φ33.5mm × 36mm				φ33.5mm × 38.2mm				φ33.5mm × 38.2mm			
Weight	71g				87g				85g			



MACRO ZOOM LENS

- 1/2" and 2/3" format models are ideal for a variety of inspection applications
- Optimal performance at variable working distances
- Highly versatile 3.3x magnification type suitable for megapixel applications
- Compact design

1/2"

2/3"

1MP

5MP

MANUAL

ZOOM

MACRO



TELECENTRIC MACRO LENS

- WD140mm-Infinity. Suitable for use as a telephoto lens and macro lens [TEC-M55]
- Compact design, compatible with 5MP sensors [TEC-M55MPW]
- 1.1" format 5MP, 7.1X magnification (0.5X-0.07X) [TEC-V7X]

1.1"

2/3"

5MP

5MP

MANUAL

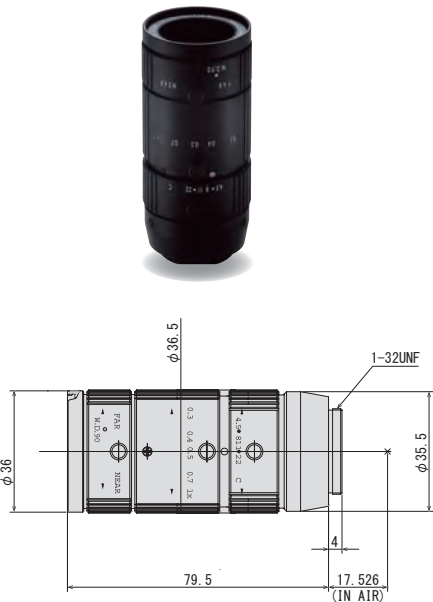
ZOOM

MACRO

TELECN

MLM-3XMP

2/3"
1MP



MLH-10X

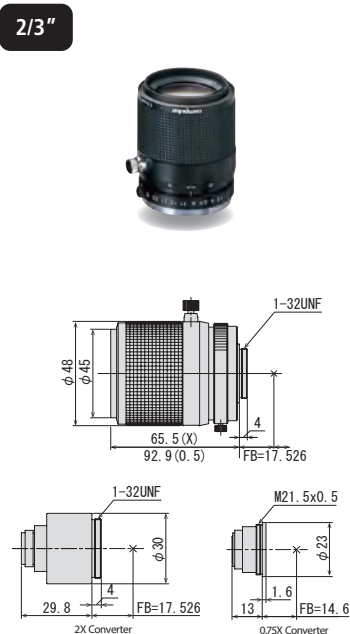
1/2"



Optical Magnification								0.084x - 0.84x								
Max. Magnification		0.3x - 1.0x						0.084mm - 0.84mm								
Max. Aperture Ratio		1:4.5						1:5.6								
Max. Image Format		8.8mm × 6.6mm (φ 11mm)						6.4mm × 4.8mm (φ 8mm)								
Operation Range	Iris	F4.5 - F22C						F5.6 - F32C								
	Focus	90mm						150mm - 450mm								
Control	Iris	Manual						Manual								
	Focus	Manual						Manual								
	Zoom	Manual						Manual								
Angle of View	D	2/3"	14.88° - 2.84°		1/2"	10.70° - 2.72°		1/2"	21.6° - 4.5°		1/3"	17.0° - 3.3°		1/4"	13.0° - 2.5°	
	H		11.80° - 2.78°			8.48° - 2.18°			18.0° - 3.6°			13.8° - 2.7°			10.6° - 2.0°	
	V		8.74° - 2.24°			6.38° - 1.64°			13.8° - 2.7°			10.6° - 2.0°			8.0° - 1.5°	
Operating Temperature		-10° C ~ +50° C						-10° C ~ +50° C								
Optical Distortion		2/3"	+0.12% at 0.3x		1/2"	+0.12% at 0.3x		1/2"	+0.9% at 0.084x							
			+1.78% at 1.0x			+0.77% at 1.0x			+1.6% at 0.84x							
Back Focal Length		20.4mm						23.29mm								
Flange Back Length		17.526mm						17.526mm								
Mount		C-Mount						C-Mount								
Filter Size		M34 P=0.5mm						M46 P=0.75mm								
Dimensions		φ36.5mm × 79.5mm						φ48mm × 98.5mm								
Weight		150g						260g								

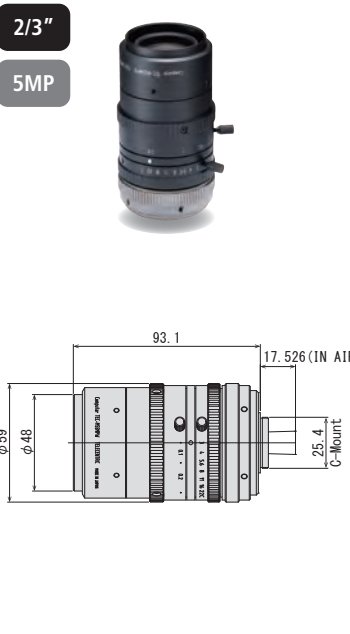
TEC-M55

2/3"



TEC-M55MPW

2/3"
5MP



TEC-V7X

1.1"
5MP
ZOOM



Focal Length		55mm			55mm (at 0.057x)							
					51mm (at 0.5x)							
Magnification		0.5x - Inf. (Max 1.0x at 140mm with 2X Converter)			0.057x - 0.5x			0.07x - 0.5x				
Max. Aperture Ratio		1:2.8			1:3.0			1:4.3				
Max. Image Format		8.8mm × 6.6mm (ϕ 11mm)			8.8mm × 6.6mm (ϕ 11mm)			12.3mm × 12.3mm (ϕ 17.4mm)				
Operation Range	Iris	F2.8 - F32C			F3.0 - F22C			F4.3 - F32				
	Focus	140mm - Inf.			139mm - 1000mm			182mm - 577.2mm				
Control	Iris	Manual			Manual			Manual				
	Focus	Manual			Manual			Manual				
	Zoom							Manual				
Operating Temperature		-20° C ~ 50° C			-10° C ~ 50° C			-10° C ~ 50° C				

Optical Distortion	2/3"	+0.2% at 0.2x	1/2"	+0.1% at 0.2x	2/3"	+0.52% at 0.057x	Tele	1.1"	1.0%	1"	0.84%	2/3"	0.39%	
		+0.6% at 0.5x		+0.3% at 0.5x		+0.6% at 0.5x			Wide		-1.7%		-1.45%	-0.7%
Back Focal Length	29.8mm					17.0mm					Tele	39.53mm		
											Wide	49.78mm		
Flange Back Length	17.526mm					17.526mm					17.526mm			
Mount	C-Mount					C-Mount					C-Mount			
Filter Size	M43 P=0.75mm					M46.0 P=0.75mm					M62 P=0.75mm			
Dimensions	ϕ53.0mm × 92.9mm (Max. at 0.5x)					ϕ 59.0mm × 93.1mm					ϕ 61 × 152.86mm			
Weight	320g					470g					1400g			



TEC-V Series

1.1" 1" MEGAPIXEL TELECENTRIC LENS

- 1.1" format 12MP (3.45μm) [TEC-V0345165MPY-WI]
- 1" format 5MP
- Versatile lineup designed for WD65mm and 110mm [TEC-V05/10]

1.1"

12MP

1"

5MP

TELECE



TEC-M Series

2/3" 2 MEGAPIXEL TELECENTRIC LENS

- Suitable for 2/3" 2MP sensor, WD65mm WD110mm

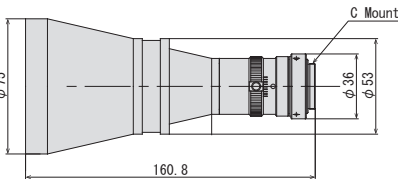
2/3"

2MP

TELECE

1.1" 12 MEGAPIXEL TELECENTRIC LENS

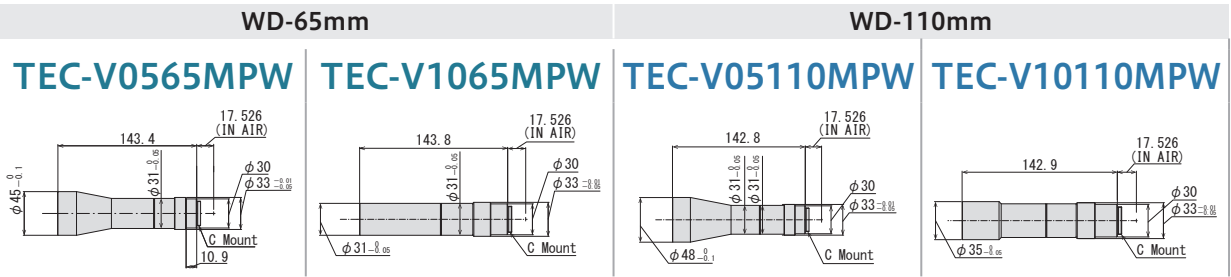
TEC-V0345165MPY-WI



Model (with coaxial type)	TEC-V0345165MPY-WI
Format	14.2mm × 10.4mm (φ 17.6mm)
Magnification	0.345x
Working Distance	165.2mm
Resolving Power *1	9.7μm
Depth of Field *2	6.63mm
NA	0.035
Effective F-number	5.0
TV Distortion	-0.024%

Mount	C-mount
Filter Size	M72 P=0.75mm
Weight	380g

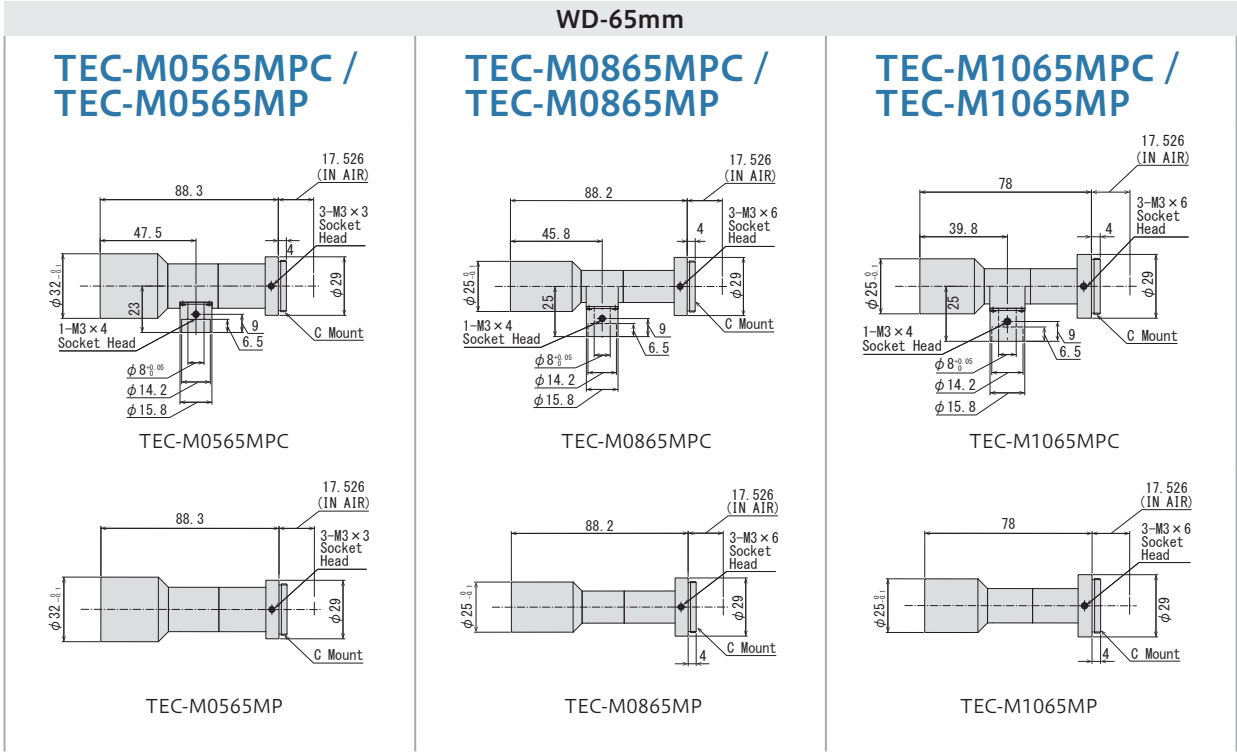
1" 5 MEGAPIXEL TELECENTRIC LENS



Model (with coaxial type)	TEC-V0565MPW	TEC-V1065MPW	TEC-V05110MPW	TEC-V10110MPW
Format	12.8mm × 9.6mm (φ 16.0mm)	12.8mm × 9.6mm (φ 16.0mm)	12.8mm × 9.6mm (φ 16.0mm)	12.8mm × 9.6mm (φ 16.0mm)
Magnification	0.5x	1.0x	0.5x	1.0x
Working Distance	65.2mm	65.2mm	110.2mm	110.2mm
Resolving Power *1	12μm	6μm	12μm	6μm
Depth of Field *2	2.88mm	0.72mm	2.88mm	0.72mm
NA	0.027	0.055	0.027	0.055
Effective F-number	9.0	9.0	9.0	9.0
TV Distortion	-0.014%	-0.023%	0.012%	0.015%

Mount	C-Mount	C-Mount	C-Mount	C-Mount
Weight	189g	158g	197g	159g

*1 : Theoretical resolution calculated with a wavelength of 550nm *2 : Value calculated with a permissible circle of confusion of 40μm
*Variable Iris type available (TEC-V05110MPW WI/TEC-V10110MPW WI).



Model (with coaxial type)	TEC-M0565MPC	TEC-M0865MPC	TEC-M1065MPC
Model (straight type)	TEC-M0565MP	TEC-M0865MP	TEC-M1065MP
Format	8.8mm × 6.6mm (φ 11.0mm)	8.8mm × 6.6mm (φ 11.0mm)	8.8mm × 6.6mm (φ 11.0mm)
Magnification	0.5x	0.8x	1.0x
Working Distance	65.5mm	66mm	65.5mm
Resolving Power *1	12μm	8μm	6.7μm
Depth of Field *2	2.87mm	1.18mm	0.79mm
NA	0.028	0.042	0.05
Effective F-number	9.0	9.4	9.8
TV Distortion	-0.012%	0.008%	-0.022%

Mount	C-Mount	C-Mount	C-Mount
Weight (with coaxial type)	80g	62g	54g
Weight (straight type)	77g	57g	49g

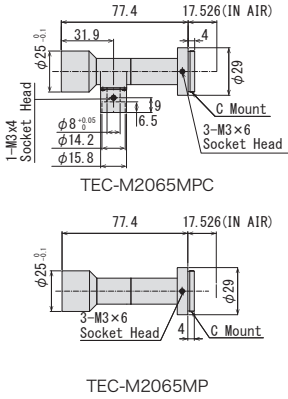
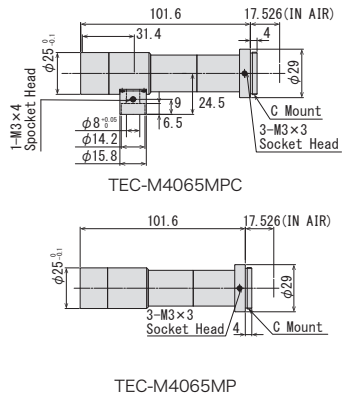
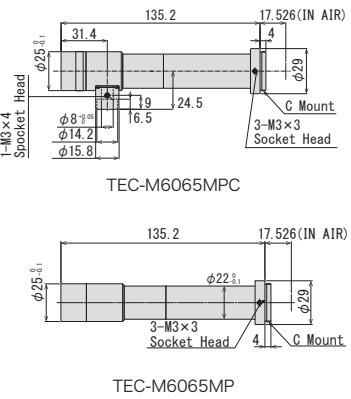
*1 : Theoretical resolution calculated with a wavelength of 550nm *2 : Value calculated with a permissible circle of confusion of 40μm

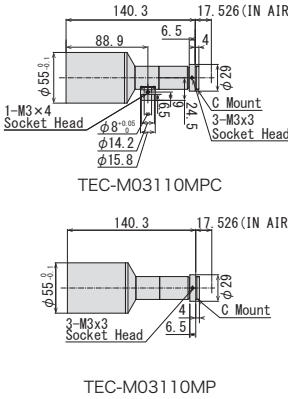
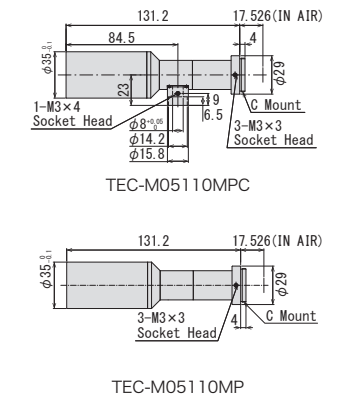
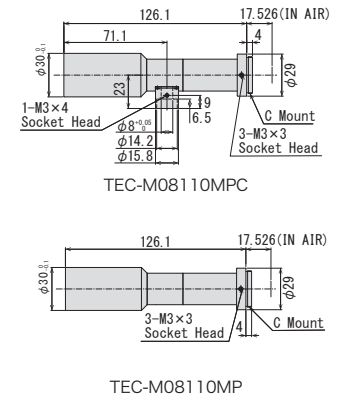
● Suitable for 2/3" 2MP sensor, WD65mm WD110mm

2/3"

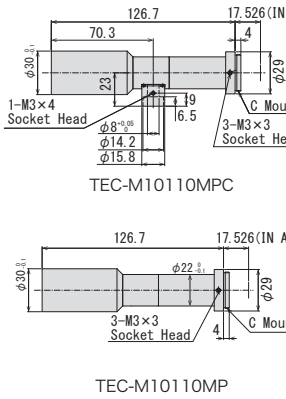
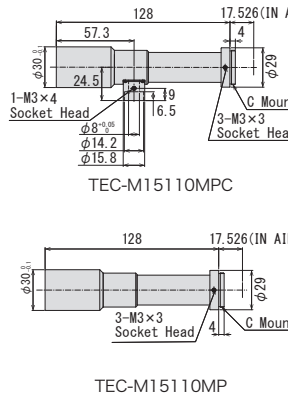
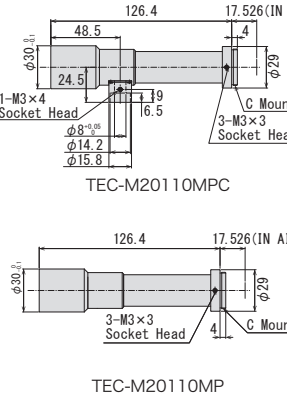
2MP

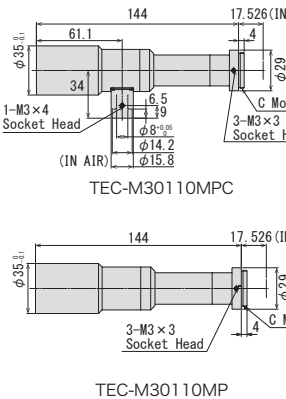
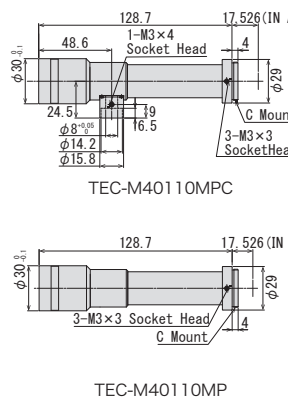
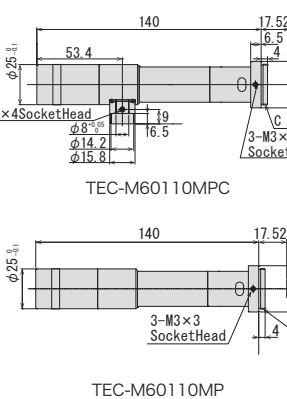
TELECE

WD-65mm			
TEC-M2065MPC / TEC-M2065MP		TEC-M4065MPC / TEC-M4065MP	
			
			
Model (with coaxial type)	TEC-M2065MPC	TEC-M4065MPC	TEC-M6065MPC
Model (straight type)	TEC-M2065MP	TEC-M4065MP	TEC-M6065MP
Format	8.8mm × 6.6m (φ 11.0mm)	2/3" φ 12.8mm	2/3" φ 12.8mm
Magnification	2.0x	4.0x	6.0x
Working Distance	65.4mm	65.3mm	64.0mm
Resolving Power *1	4.4μm	2.9μm	2.9μm
Depth of Field *2	0.26mm	0.08mm	0.06mm
NA	0.076	0.118	0.118
Effective F-number	12.8	16.9	25.5
TV Distortion	0.020%	-0.003%	-0.026%
Mount	C-Mount	C-Mount	C-Mount
Weight (with coaxial type)	55g	85g	100g
Weight (straight type)	49g	83g	98g

WD-110mm			
TEC-M03110MPC / TEC-M03110MP		TEC-M05110MPC / TEC-M05110MP	
			
			
Model (with coaxial type)	TEC-M03110MPC	TEC-M05110MPC	TEC-M08110MPC
Model (straight type)	TEC-M03110MP	TEC-M05110MP	TEC-M08110MP
Format	8.8mm × 6.6m (φ 11.0mm)	8.8mm × 6.6m (φ 11.0mm)	8.8mm × 6.6m (φ 11.0mm)
Magnification	0.3x	0.5x	0.8x
Working Distance	111mm	111.8mm	111mm
Resolving Power *1	14.5μm	12.7μm	8.8μm
Depth of Field *2	5.75mm	3.03mm	1.31mm
NA	0.023	0.026	0.038
Effective F-number	6.5	9.4	10.2
TV Distortion	0.026%	-0.009%	-0.027%
Mount	C-Mount	C-Mount	C-Mount
Weight (with coaxial type)	166g	131g	106g
Weight (straight type)	160g	128g	103g

*1 : Theoretical resolution calculated with a wavelength of 550nm *2 : Value calculated with a permissible circle of confusion of 40μm

WD-110mm			
TEC-M10110MPC / TEC-M10110MP		TEC-M15110MPC / TEC-M15110MP	
			
			
Model (with coaxial type)	TEC-M10110MPC	TEC-M15110MPC	TEC-M20110MPC
Model (straight type)	TEC-M10110MP	TEC-M15110MP	TEC-M20110MP
Format	8.8mm × 6.6m (φ 11.0mm)	8.8mm × 6.6m (φ 11.0mm)	8.8mm × 6.6m (φ 11.0mm)
Magnification	1.0x	1.5x	2.0x
Working Distance	111.5mm	110.7mm	110.9mm
Resolving Power *1	6.9μm	5.2μm	4.5μm
Depth of Field *2	0.82mm	0.42mm	0.27mm
NA	0.049	0.064	0.075
Effective F-number	10.1	11.5	13.0
TV Distortion	-0.003%	0.031%	-0.019%
Mount	C-Mount	C-Mount	C-Mount
Weight (with coaxial type)	108g	110g	115g
Weight (straight type)	105g	108g	113g

WD-110mm			
TEC-M30110MPC / TEC-M30110MP		TEC-M40110MPC / TEC-M40110MP	
			
			
Model (with coaxial type)	TEC-M30110MPC	TEC-M40110MPC	TEC-M60110MPC
Model (straight type)	TEC-M30110MP	TEC-M40110MP	TEC-M60110MP
Format	2/3" φ 12.8mm	8.8mm × 6.6m (φ 11.0mm)	2/3" φ 12.8mm
Magnification	3.0x	4.0x	6.0x
Working Distance	111.4mm	110.5mm	110mm
Resolving Power *1	3.6μm	3.7μm	4.4μm
Depth of Field *2	0.14mm	0.11mm	0.09mm
NA	0.094	0.091	0.076
Effective F-number	16.0	21.9	39.6
TV Distortion	-0.012%	-0.004%	-0.015%
Mount	C-Mount	C-Mount	C-Mount
Weight (with coaxial type)	166g	121g	103g
Weight (straight type)	160g	120g	101g

*1 : Theoretical resolution calculated with a wavelength of 550nm *2 : Value calculated with a permissible circle of confusion of 40μm



NEW

MPYIR Series

1.1" IR CORRECTIVE 12 MEGAPIXEL LENS for ITS

Model No.	Format	Focal Length	F No.	IRIS	Working Distance	Weight
V2518FIC-MPYIR	1.1"	25mm	F1.8 - F16C	Manual	1m - Inf.	158g
V3518FIC-MPYIR		35mm			2m - Inf.	153g
V5020FIC-MPYIR		50mm			3m - Inf.	151g
VG2518KC-MPYIR		25mm	F1.8 - F16C	P-IRIS	1m - Inf.	127g
VG3518KC-MPYIR		35mm			2m - Inf.	123g
VG5020KC-MPYIR		50mm			3m - Inf.	121g

- Suitable for 1.1" 12MP sensor, same size as conventional products
- Usable lineup for ANPR, 25mm/35mm/50mm
- Manual iris and P-iris available for each model
- No focus shift from visible light to NIR
- High spectral transmittance between visible light to NIR

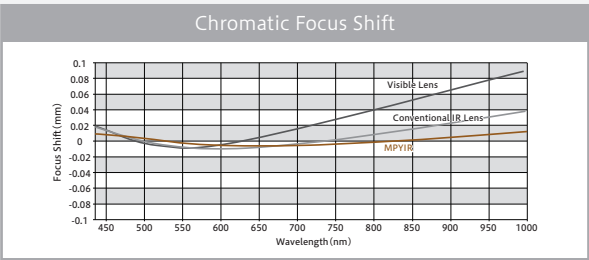
1.1"

12MP

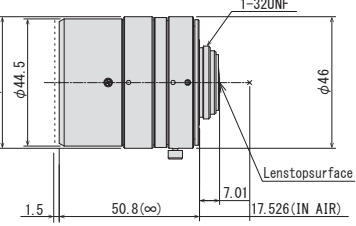
MANUAL

FIX

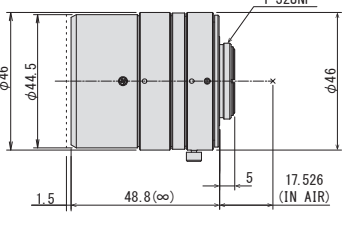
IR



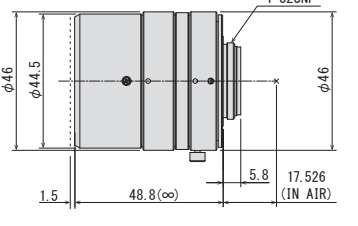
V2518FIC-MPYIR



V3518FIC-MPYIR

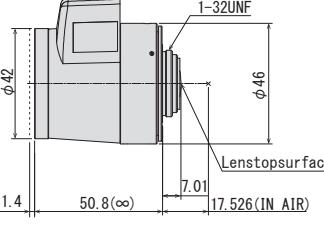


V5020FIC-MPYIR

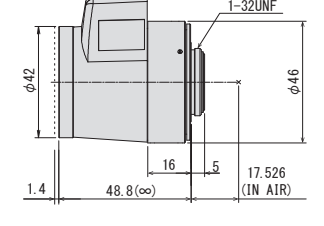


Focal Length	25mm				35mm				50mm				
Max. Aperture Ratio	1:1.8				1:1.8				1:2.0				
Max. Image Format	14.2mm × 10.4mm (φ 17.6mm)				14.2mm × 10.4mm (φ 17.6mm)				14.2mm × 10.4mm (φ 17.6mm)				
Operation Range	Iris	F1.8 - F16C				F1.8 - F16C				F2.0 - F16C			
	Focus	1m - Inf.				2m - Inf.				3m - Inf.			
Control	Iris	Manual				Manual				Manual			
	Focus	Manual				Manual				Manual			
Angle of View	D	38.8°	35.6°	24.9°	27.4°	25.1°	17.4°	19.4°	17.7°	12.2°			
	H	1.1" 31.8°	1" 28.8°	2/3" 20.0°	1.1" 22.3°	1" 20.2°	2/3" 14.0°	1.1" 15.7°	1" 14.2°	2/3" 9.8°			
	V	23.6°	21.8°	15.1°	16.5°	15.2°	10.5°	11.6°	10.7°	7.4°			
Operating Temperature	-10°C ~ +50°C				-10°C ~ +50°C				-10°C ~ +50°C				
Back Focal Length	10.6mm				14.2mm				14.2mm				
Flange Back Length	17.526mm				17.526mm				17.526mm				
Mount	C-Mount				C-Mount				C-Mount				
Filter Size	M40.5 P=0.5mm				M40.5 P=0.5mm				M40.5 P=0.5mm				
Dimensions	φ46mm × 50.8mm				φ46mm × 48.8mm				φ46mm × 48.8mm				
Weight	158g				153g				151g				

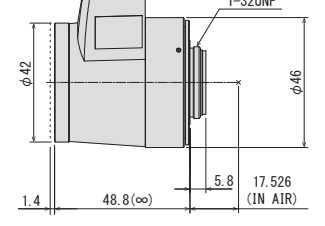
VG2518KC-MPYIR



VG3518KC-MPYIR



VG5020KC-MPYIR



Focal Length	25mm				35mm				50mm				
Max. Aperture Ratio	1:1.8				1:1.8				1:2.0				
Max. Image Format	14.2mm × 10.4mm (φ 17.6mm)				14.2mm × 10.4mm (φ 17.6mm)				14.2mm × 10.4mm (φ 17.6mm)				
Operation Range	Iris	F1.8 - F16C				F1.8 - F16C				F2.0 - F16C			
	Focus	1m - Inf.				2m - Inf.				3m - Inf.			
Control	Iris	Stepping Motor				Stepping Motor				Stepping Motor			
	Focus	Manual				Manual				Manual			
Angle of View	D	38.8°	35.6°	24.9°	27.4°	25.1°	17.4°	19.4°	17.7°	12.2°			
	H	1.1" 31.8°	1" 28.8°	2/3" 20.0°	1.1" 22.3°	1" 20.2°	2/3" 14.0°	1.1" 15.7°	1" 14.2°	2/3" 9.8°			
	V	23.6°	21.8°	15.1°	16.5°	15.2°	10.5°	11.6°	10.7°	7.4°			
Operating Temperature	-10°C ~ +50°C				-10°C ~ +50°C				-10°C ~ +50°C				
Back Focal Length	10.6mm				14.2mm				14.2mm				
Flange Back Length	17.526mm				17.526mm				17.526mm				
Mount	C-Mount				C-Mount				C-Mount				
Filter Size	M40.5 P=0.5mm				M40.5 P=0.5mm				M40.5 P=0.5mm				
Dimensions	φ42mm × 57mm × 50.8mm				φ42mm × 57mm × 48.8mm				φ42mm × 57mm × 48.8mm				
Weight	127g				123g				121g				



MPIR Series

2/3" IR CORRECTIVE 5 MEGAPIXEL LENS for ITS

Model No.	Format	Focal Length	F No.	Working Distance	Weight
M2514FIC-MPIR	2/3"	25mm	F1.4 - F16C	1m - Inf.	154g
M3518FIC-MPIR		35mm	F1.8 - F16C	1m - Inf.	149g
M5020FIC-MPIR		50mm	F2.0 - F16C	2m - Inf.	155g
MG2514KC-MPIR		25mm	F1.4 - F16C	1m - Inf.	128g
MG3518KC-MPIR		35mm	F1.8 - F16C	1m - Inf.	123g
MG5020KC-MPIR		50mm	F2.0 - F16C	2m - Inf.	129g

- Suitable for 2/3" 5MP sensors
- Compact design
- Usable lineup for ANPR, 25mm, 35mm, and 50mm
- Each model available in manual iris and P-iris
- Minimizes focus shift between visible light to NIR
- High spectral transmittance between visible light to NIR

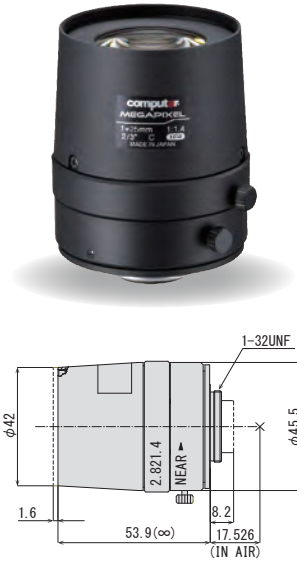
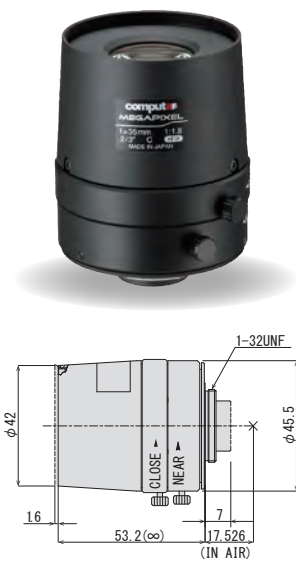
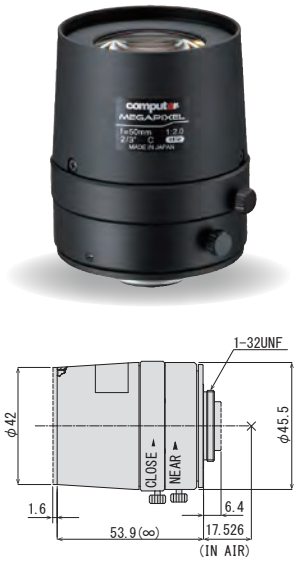
2/3"

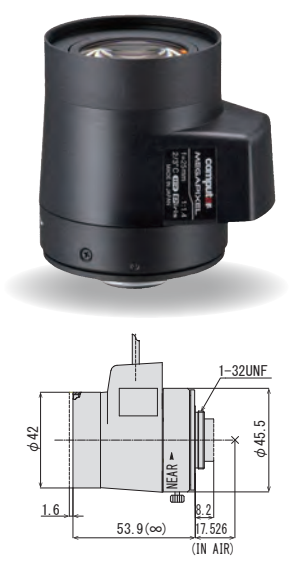
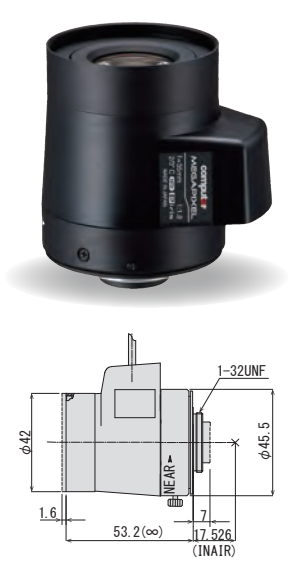
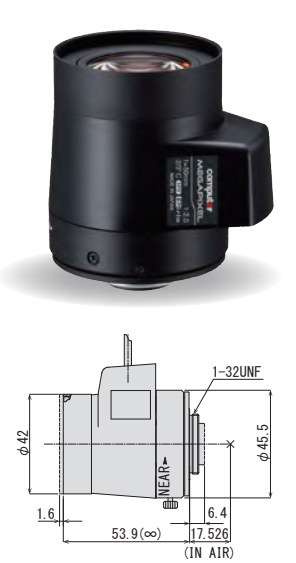
5MP

MANUAL

FIX

IR

M2514FIC-MPIR				M3518FIC-MPIR				M5020FIC-MPIR								
																
Focal Length	25mm			Focal Length	35mm			Focal Length	50mm							
Max. Aperture Ratio	1:1.4			Max. Aperture Ratio	1:1.8			Max. Aperture Ratio	1:2.0							
Max. Image Format	11.3mm × 6.0mm (φ 12.8mm)			Max. Image Format	11.3mm × 6.0mm (φ 12.8mm)			Max. Image Format	11.3mm × 6.0mm (φ 12.8mm)							
Operation Range	Iris	F1.4 - F16C		Operation Range	Iris	F1.8 - F16C		Operation Range	Iris	F2.0 - F16C						
	Focus	1m - Inf.			Operation Range	Focus	1m - Inf.		Operation Range	Focus	2m - Inf.					
Control	Iris	Manual		Control		Iris	Manual			Control	Iris	Manual				
	Focus	Manual			Control	Focus	Manual		Control		Focus	Manual				
Angle of View	D	24.9°	18.2°	13.7°		Angle of View	D	17.4°		12.7°	9.5°	Angle of View	D	12.2°	8.9°	6.7°
	H	20.0°	14.6°	11.0°	Angle of View		H	13.9°	10.2°	7.6°	Angle of View		H	9.8°	7.1°	5.3°
	V	15.1°	11.0°	8.2°			Angle of View	V	10.5°	7.6°			5.7°	Angle of View	V	7.3°
CMV2000 11.264 × 5.984 (φ 12.75)	D	28.6°		20.0°	CMV2000 11.264 × 5.984 (φ 12.75)	D		14.1°		CMV2000 11.264 × 5.984 (φ 12.75)	D	12.5°				
	H	25.4°		17.8°		CMV2000 11.264 × 5.984 (φ 12.75)	H	12.5°			CMV2000 11.264 × 5.984 (φ 12.75)	H	6.7°			
	V	13.7°		9.5°			CMV2000 11.264 × 5.984 (φ 12.75)	V	6.7°			CMV2000 11.264 × 5.984 (φ 12.75)	V			
Operating Temperature	-10°C ~ +50°C			Operating Temperature	-10°C ~ +50°C			Operating Temperature	-10°C ~ +50°C							
Back Focal Length	10.8mm			Back Focal Length	14.3mm			Back Focal Length	14.8mm							
Flange Back Length	17.526mm			Flange Back Length	17.526mm			Flange Back Length	17.526mm							
Mount	C-Mount			Mount	C-Mount			Mount	C-Mount							
Filter Size	M40.5 P=0.5mm			Filter Size	M40.5 P=0.5mm			Filter Size	M40.5 P=0.5mm							
Dimensions	φ46.5mm × 53.9mm			Dimensions	φ46.5mm × 53.2mm			Dimensions	φ46.5mm × 53.9mm							
Weight	154g			Weight	149g			Weight	155g							

MG2514KC-MPIR										MG3518KC-MPIR										MG5020KC-MPIR									
																													
Focal Length		25mm																											
Max. Aperture Ratio		1:1.4																											
Max. Image Format		11.3mm × 6.0mm (φ 12.8mm)																											
Operation Range	Iris	F1.4 - F16C																											
	Focus	1m - Inf.																											
Control	Iris	Stepping Motor																											
	Focus	Manual																											
Angle of View	D		24.9°		18.2°		13.7°		17.4°		12.7°		9.5°		12.2°		8.9°		6.7°										
	H	2/3"	20.0°	1/2"	14.6°	1/3"	11.0°	2/3"	13.9°	1/2"	10.2°	1/3"	7.6°	2/3"	9.8°	1/2"	7.1°	1/3"	5.3°										
	V		15.1°		11.0°		8.2°		10.5°		7.6°		5.7°		7.3°		5.3°		4.0°										
CMV2000 11.264 × 5.984 (φ 12.75)	D	28.6°																											
	H	25.4°																											
	V	13.7°																											
Operating Temperature		-10°C ~ +50°C																											
Back Focal Length		10.8mm																											
Flange Back Length		17.526mm																											
Mount		C-Mount																											
Filter Size		M40.5 P=0.5mm																											
Dimensions		φ42mm × 58.6mm × 53.9mm																											
Weight		128g																											

1 MEGAPIXEL BOARD LENS

1/2" 1MP FIX BOARD



3 MEGAPIXEL ULTRA-LOW DISTORTION BOARD LENS

1/1.8" 3MP FIX BOARD



Model Name		H0320KP	H0624KP	H0924KP	H1620KP	H2520KP	E1220KV	E1620KV	E2520KV
Format		1/2"	1/2"	1/2"	1/2"	1/2"	1/1.8"	1/1.8"	1/1.8"
Mount		M12							
Pitch		0.5							
Focal Length		3mm	6mm	9mm	16mm	25mm	12.0mm	16.0mm	25.0mm
Aperture		F2.0	F2.4	F2.4	F2.0	F2.0	F2.0	F2.0	F2.0
Optical Distortion		-37.5%	-9.0%	-1.6%	0.4%	1.0%	0.04%	-0.07%	0.02%
Angle of view at Inf.	D	125.3°	72.5°	48.6°	27.9°	18.0°	39.5°	30.0°	19.5°
	H	104.3°	59.1°	39.6°	22.6°	14.5°	32.1°	24.3°	15.7°
	V	80.5°	45.0°	30.1°	17.0°	10.9°	24.4°	18.4°	11.9°
	D	98.6°	55.6°	37.3°	21.2°	13.6°	36.8°	27.9°	18.1°
	H	80.5°	45.0°	30.1°	17.0°	10.9°	29.8°	22.6°	14.6°
	V	61.3°	34.0°	22.7°	12.8°	8.2°	22.6°	17.0°	11.0°
	D	75.8°	42.3°	28.3°	16.0°	10.3°	28.1°	21.2°	13.7°
	H	61.3°	34.0°	22.7°	12.8°	8.2°	22.6°	17.0°	11.0°
	V	46.3°	25.6°	17.1°	9.6°	6.2°	17.1°	12.8°	8.2°
	D	125.3°	72.5°	48.6°	27.9°	18.0°	39.5°	30.0°	19.5°
	H	104.3°	59.1°	39.6°	22.6°	14.5°	32.1°	24.3°	15.7°
	V	80.5°	45.0°	30.1°	17.0°	10.9°	24.4°	18.4°	11.9°

*Please contact us for lead-time as it is a made-to-order product.

*Please contact us for lead-time as it is a made-to-order product.

4K FISHEYE BOARD LENS

1/1.7" 4K IR FIX FISHEYE



5 MEGAPIXEL FISHEYE BOARD LENS

1/2.5" 5MP IR FIX FISHEYE



Model Name		E1628KRY	E1222KRY	E1628KF3RY*	E1222KF3RY*	E2328KRY	L1028KRW	L1028KDRW
Format		1/1.7"	1/1.7"	1/1.7"	1/1.7"	1/1.8"	1/2.5"	1/2.5"
Mount		M12						
Pitch		0.5						
Focal Length		1.6mm	1.2mm	1.6mm	1.2mm	2.3mm	1.05mm	1.05mm
Aperture		F2.8	F2.2	F2.8	F2.2	F2.8	F2.8	F2.8
Angle of view at Inf.	D	190.0°	185.0°	190.0°	185.0°	—	180.0°	180.0°
	H	168.2°	171.5°	168.2°	171.5°	159.0°	163.2°	163.2°
	V	125.5°	139.5°	125.5°	139.5°	119.5°	130.2°	130.2°
	D	157.3°	164.2°	157.3°	164.2°	149.2°	180.0°	180.0°
	H	125.5°	139.5°	125.5°	139.5°	119.5°	163.2°	163.2°
	V	94.2°	110.3°	94.2°	110.3°	89.6°	130.2°	130.2°
	D	190.0°	185.0°	190.0°	185.0°	—	180.0°	180.0°
	H	168.2°	171.5°	168.2°	171.5°	159.0°	163.2°	163.2°
	V	125.5°	139.5°	125.5°	139.5°	119.5°	130.2°	130.2°
	D	157.3°	164.2°	157.3°	164.2°	149.2°	180.0°	180.0°
	H	125.5°	139.5°	125.5°	139.5°	119.5°	163.2°	163.2°
	V	94.2°	110.3°	94.2°	110.3°	89.6°	130.2°	130.2°
IRCF		—	—	○	○	—	—	○

*Please note E1628KF3RY and E1222KF3RY are produced to order.
*Please contact us for lead-time as it is a made-to-order product.

*Please contact us for lead-time as it is a made-to-order product.

EX1.5C



EX2C



VM100



Description	1.5X Extender for C-mount	2X Extender for C-mount	Extension Tube Kit 40, 20, 10, 5, 1, 0.5mm
Application	Attached between lens and camera - Makes focal length 1.5X	Attached between lens and camera - Makes focal length 2X	Attached between lens and camera - Reduces minimum focusing distance

VM400



M55-0.75X



M55-2.0X



Description	5mm Adapter Ring	Rear converter 0.75X (Designed for TEC-M55)	Rear converter 2.0X (Designed for TEC-M55)
Application	Attached between lens and camera - Adapts C-mount lens to CS-mount camera	Makes focal length 0.75X	Makes focal length 2.0X

VM0811



VM0810



ZM0810



Description	Filter holder for V0828-MPY2 (M72 P=0.75)	Filter holder for V0828-MPY2 (M67 P=0.75)	Filter holder for V0826-MPZ (M82 P=0.75)
Application	Attached between filter and lens for 1.1" sensor camera	Attached between filter and lens for 1" sensor camera	Attached between filter and lens for 1" sensor camera

VM0918



TM1243



TM1643



Description	Filter holder for EG6Z0915 series (M67 P=0.75)	Filter holder for F1228-MPT (M72 P=0.75)	Filter holder for F1628-MPT (M52 P=0.75)
Application	Attached between filter and lens	Attached between filter and lens for 1.4" sensor camera	Attached between filter and lens for 1.4" sensor camera



4K/5MP Varifocal Lens

- Ultra-high-resolution 5MP and 8MP (4K) models
- High performance from center to the edge, ideal for multi-ROI
- Day/Night design, minimizing focus shift at NIR
- Various focal lengths from wide 2.8mm to telephoto 50mm
- F0.9 high-speed model available (EG3Z0409)
- F1.5 flat F-stop from wide to telephoto (EG6Z0915)

Model Name	Format	Mount	Focal Length	F No.	Type	M.O.D	Front Filter Thread	Dimensions (mm)			Weight
								φ	H	D	
E3Z3915CS-MPWIR	1/1.8"	CS	3.9mm - 10mm	F1.5 - F16C	Manual	0.8m	-	43	-	59	69g
EG3Z3915FCS-MPWIR	1/1.8"	CS	3.9mm - 10mm	F1.5 - F360C	DC	0.8m	-	40	49	59	72g
EG3Z3915KCS-MPWIR	1/1.8"	CS	3.9mm - 10mm	F1.5 - F16C	P-iris	0.8m	-	40	49	59	71g
EG3Z3915TCS-MPWIR	1/1.8"	CS	3.9mm - 10mm	F1.5 - F16C	i-CS	0.8m	-	54	67	59	109g
EG3Z0409FCS-MPWIR	1/1.8"	CS	4mm - 10mm	F0.9 - F360C	DC	0.1m	-	63	73	77	384g
EG3Z0409KCS-MPWIR	1/1.8"	CS	4mm - 10mm	F0.9 - F16C	P-iris	0.1m	-	63	73	77	388g
EG6Z0915FCS-MPWIR	1/1.8"	CS	9mm - 50mm	F1.5 - F360C	DC	3.0m	-	68	83	104	279g
EG6Z0915KCS-MPWIR	1/1.8"	CS	9mm - 50mm	F1.5 - F20C	P-iris	3.0m	-	68	83	104	278g
EG6Z0915TCS-MPWIR	1/1.8"	CS	9mm - 50mm	F1.5 - F16C	i-CS	3.0m	-	77	84	104	291g
A3Z2812CS-MPWIR	1/2.7"	CS	2.8mm - 8.5mm	F1.2 - F16C	Manual	0.5m	-	43	-	59	64g
AG3Z2812FCS-MPWIR	1/2.7"	CS	2.8mm - 8.5mm	F1.2 - F360C	DC	0.5m	-	40	49	59	67g
AG3Z2812KCS-MPWIR	1/2.7"	CS	2.8mm - 8.5mm	F1.2 - F16C	P-iris	0.5m	-	40	49	59	66g



HD Zoom Lens

- 2/3", 1/1.8", and 1/2" available for full HD megapixel sensors
- Various zoom ratios from 17x to 66x, covering focal lengths between 8.8-1550mm
- Preset function and filter thread available
- Suitable for surveillance applications
- ※ Please contact us for a lead time as it is a made-to-order product

Model Name	Format	Mount	Focal Length	F No.	Type	M.O.D	Front Filter Thread	Dimensions (mm)			Weight
								φ	H	D	
H35Z1015PDC-MP	1/2"	C	10mm - 350mm	F1.5 - F1000	DC/Preset	2.5m	M86 P=1.0mm	97	109	238	1830g
H62Z1235PDC-MP2	1/2"	C	12.5mm - 775mm	F3.5 - Close	DC/Preset	5.0m	M109 P=1.0mm	150	135	367	5200g
H62Z1235PDC-MPIR	1/2"	C	12.5mm - 775mm	F3.5 - Close	DC/Preset	5.0m	M109 P=1.0mm	150	135	367	5800g
H62Z1235PDC-MPIR-EX	1/2"	C	25mm - 1500mm	F3.5 - Close	DC/Preset	5.0m	M109 P=1.0mm	150	135	367	6000g
E17Z8816PDC-MP	1/1.8"	C	8.8mm - 150mm	F1.6 - F500	DC/Preset	4.0m	M72 P=0.75mm	85	85.8	158	1160g
E24Z1018DC-MP	1/1.8"	C	10mm - 240mm	F1.8 - F500C	DC	4.0m	M77 P=1.0mm	101	102	198	2060g
E24Z1018PDC-MPIR	1/1.8"	C	10mm - 240mm	F1.8 - F500C	DC/Preset	4.0m	M77 P=1.0mm	101	102	204	2140g
E66Z1635PDC-MP	1/1.8"	C	16.7mm - 1000mm	F3.5 - Close	DC/Preset	5.0m	M109 P=1.0mm	150	135	367	5300g
E66Z1635PDC-MPIR	1/1.8"	C	16.7mm - 1000mm	F3.5 - Close	DC/Preset	5.0m	M109 P=1.0mm	150	135	367	5800g
M24Z1527MP-MP	2/3"	C	15mm - 360mm	F2.7 - F22C	3 Motor/Preset	5.0m	M77 P=1.0mm	101	102.4	221	2240g
M24Z1527PDC-MP	2/3"	C	15mm - 360mm	F2.7 - F500C	DC/Preset	5.0m	M77 P=1.0mm	101	102.4	221	2180g
M24Z2138PDC-MP	2/3"	C	21mm - 500mm	F3.8 - F500C	DC/Preset	5.0m	M77 P=1.0mm	101	102.4	237	2240g



3MP Varifocal Lens

- 1/2.7" 3MP
- Compact design
- Various focal lengths, from wide to telephoto
- Each model available in manual iris, DC iris, and P-iris

Model Name	Format	Mount	Focal Length	F No.	Type	M.O.D	Front Filter Thread	Dimensions (mm)			Weight
								φ	H	D	
A4Z2812CS-MPIR	1/2.7"	CS	2.8mm - 10mm	F1.2 - F16C	Manual	0.5m	-	43.6	-	59	63g
AG4Z2812FCS-MPIR	1/2.7"	CS	2.8mm - 10mm	F1.2 - F360C	DC	0.5m	-	40	49	59	66g
AG4Z2812KCS-MPIR	1/2.7"	CS	2.8mm - 10mm	F1.2 - F16C	P-iris	0.5m	-	40	49	59	65g
A6Z8516CS-MP	1/2.7"	CS	8.5mm - 50mm	F1.6 - F16C	Manual	1.0m	M40.5 P=0.5mm	49	-	58	77g
AG6Z8516FCS-MP	1/2.7"	CS	8.5mm - 50mm	F1.6 - F360C	DC	1.0m	M40.5 P=0.5mm	46	60	58	80g
AG6Z8516KCS-MP	1/2.7"	CS	8.5mm - 50mm	F1.6 - F16C	P-iris	1.0m	M40.5 P=0.5mm	46	60	58	78g
A4Z1214CS-MPIR	1/2.7"	CS	12.5mm - 50mm	F1.4 - F16C	Manual	1.0m	M40.5 P=0.5mm	49	-	58	80g
AG4Z1214FCS-MPIR	1/2.7"	CS	12.5mm - 50mm	F1.4 - F360C	DC	1.0m	M40.5 P=0.5mm	46	59.3	58	83g
AG4Z1214KCS-MPIR	1/2.7"	CS	12.5mm - 50mm	F1.4 - F16C	P-iris	1.0m	M40.5 P=0.5mm	40	49	59	81g



Direct Mount Varifocal Lens

- Resolution up to 8MP supported
- Various image format options available from 1/3" to 1/1.2"
- Newly released compact varifocal lens for IMX485 (NSF2.3Z5915BHRW)
- Newly released compact varifocal lens for IMX415 (TSF2.9Z2813BHRW)
- ※ Please contact us for a lead time as it is a made-to-order product.

1. Calculation of Working Distance (WD)

Distance from lens to object (WD) is calculated by putting the size of a camera's imaging device, focal length, and an object size into the following formula.

<Formula>
 $WD = H1 + y \times f / y'$

[Ex]
When 2/3" camera with M2514-MP2 films an object whose vertical size is 120 mm.
f : 25 mm
H1 : 23.8mm
y : 120mm
y' : 6.6mm

Distance from lens to object=
 $WD = 23.8 + 120 \times 25 / 6.6 = 478.35\text{mm}$

2. Calculation of Focal Length

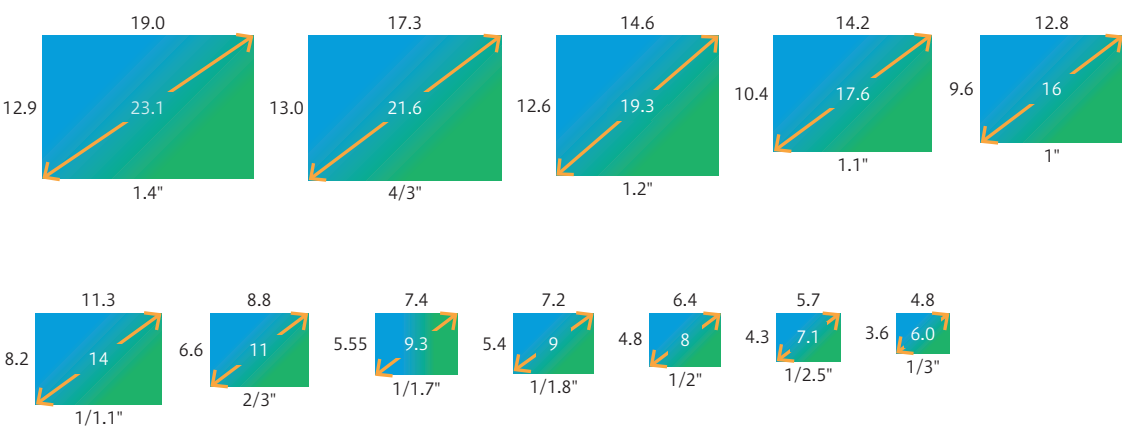
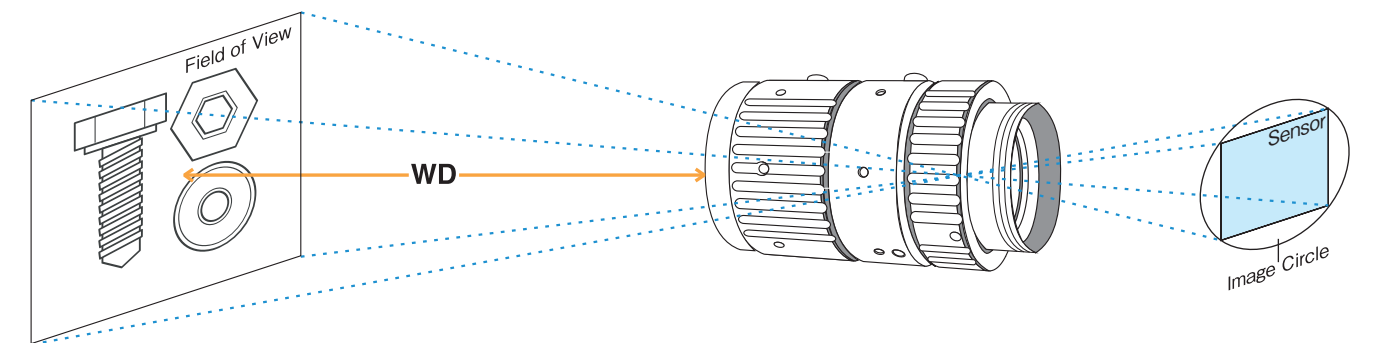
When choosing size of a camera's imaging device, the object size and WD are fixed, focal length can be calculated by the following formula. You can select appropriate lens from the focal length.

<Formula>
 $f = y' \times WD / y$

f = focal length of lens
WD = distance from lens to object
H1 : first principal point
y : vertical size of object
y' : vertical size of camera's imaging device

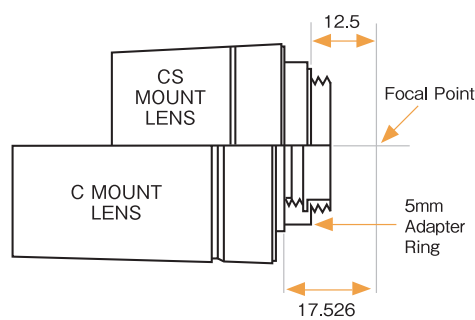
CAMERA FORMAT

The size of the camera's imaging device also affects the angle of view, with the smaller devices creating narrower angles of view when used on the same lens. The format of the lens, however, is irrelevant to the angle of view; it merely needs to project an image that will cover the device, e.g., the same format as the camera or larger. This also means that 1/3" cameras can utilize the entire range of lenses from 1/3" to 2/3", with a 1/3" 8mm lens giving the same angle as a 2/3" 8mm lens. The latter combination also provides increased resolution and picture quality as only the center of the lens is being utilized, where the optics can be ground more accurately.



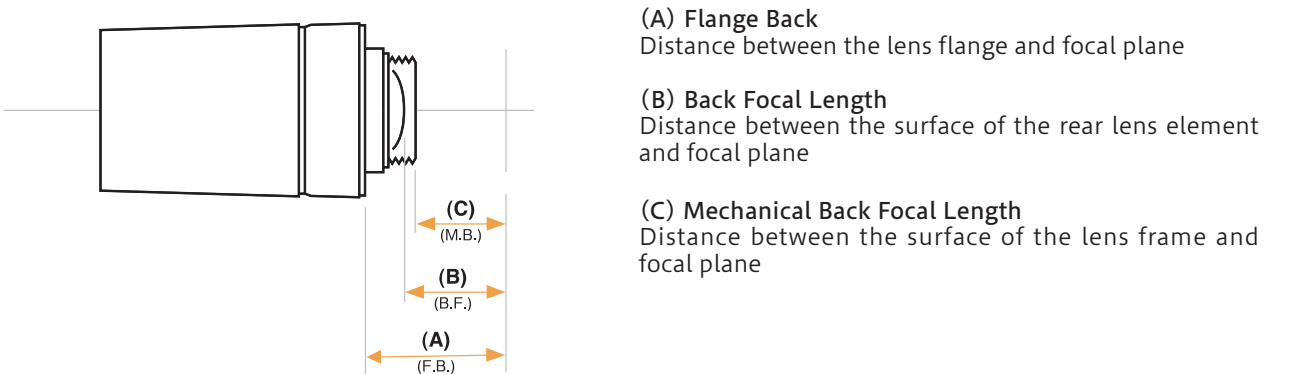
C OR CS MOUNT

Modern cameras and lenses are generally CS mount. With CS mount cameras, both types of lenses can be used, but the C mount lens requires a 5mm ring (VM400) to be fitted between the camera and lens to achieve a focused image. With C mount cameras, it is impossible to use CS mount lenses as it is not physically possible to get the lens close enough to the sensor to achieve a focused image.

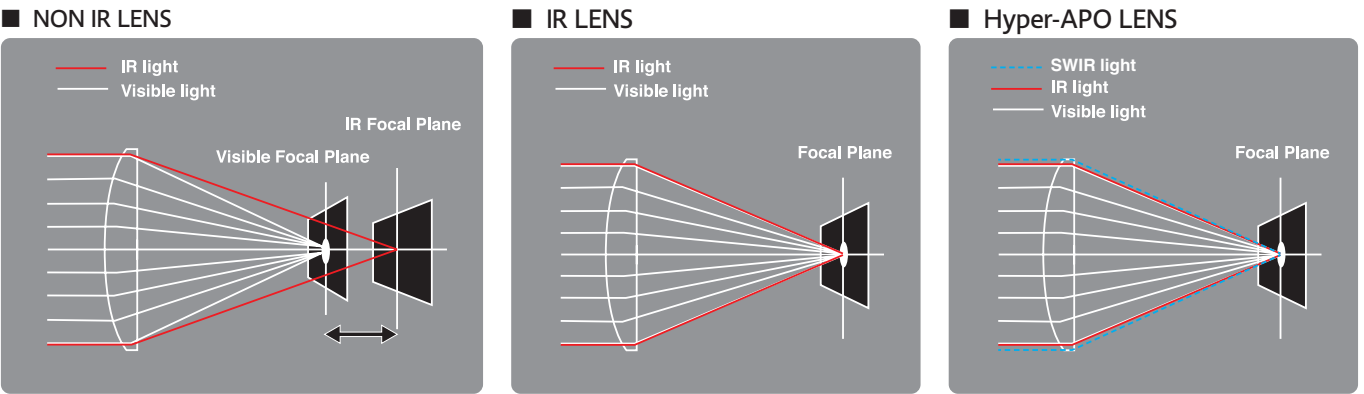


	C mount lens	CS mount lens
C mount camera	○	×
CS mount camera	needs 5mm ring	○

FLANGE BACK, BACK FOCAL LENGTH, AND MECHANICAL BACK FOCAL LENGTH



MECHANISM AND ADVANTAGEOUS EFFECT OF IR LENS



Day/Night cameras typically operate in the near-infrared/infrared zones at night, making the image "out of focus" and unsuitable if used with a conventional lens. Computar has developed IR Lenses that utilize a unique optical glass material that minimizes light dispersion. As a result, refocusing is not required when used with infrared lighting. The lens is manufactured with a special ED glass (extra dispersion) which does not widely disperse light of different wavelengths and has a "special coating." This combination allows the lens to deliver perfect focus under normal and IR illumination by transmitting more light to the infrared region.

FIELD OF VIEW

LensConnect BH Series

DL0828UC-MPY (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.008	-	1399.5	1023.8	1097.3	818.7	894.6	667.5
900	0.009	-	1261.0	922.4	988.5	737.5	805.9	601.3
800	0.010	-	1122.5	820.9	879.9	656.4	717.3	535.2
700	0.012	-	984.1	719.5	771.2	575.3	628.6	469.0
600	0.014	-	845.6	618.1	662.5	494.1	540.0	402.9
500	0.016	-	707.1	516.7	553.8	413.0	451.3	336.7
450	0.018	-	637.9	466.0	499.5	372.4	407.0	303.6
400	0.020	-	568.6	415.2	445.1	331.9	362.7	270.5
350	0.023	-	499.3	364.5	390.8	291.3	318.4	237.4
300	0.027	-	430.1	313.8	336.4	250.7	274.0	204.4
250	0.032	-	360.8	263.0	282.0	210.1	229.7	171.3
200	0.040	-	291.4	212.3	227.6	169.5	185.3	138.2
190	0.042	-	277.5	202.1	216.8	161.4	176.5	131.5
180	0.044	-	263.6	192.0	205.9	153.3	167.6	124.9
170	0.046	-	249.8	181.8	195.0	145.2	158.7	118.3
160	0.049	-	235.9	171.6	184.1	137.1	149.8	111.7
150	0.052	-	222.0	161.5	173.2	128.9	140.9	105.0
140	0.055	-	208.1	151.3	162.3	120.8	132.1	98.4
130	0.059	-	194.2	141.1	151.4	112.7	123.2	91.8
120	0.064	-	180.3	131.0	140.5	104.5	114.3	85.2
110	0.070	-	166.3	120.8	129.6	96.4	105.4	78.5
100	0.076	-	152.4	110.6	118.7	88.2	96.5	71.9

DL1224UC-MPY (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.012	-	950.2	695.0	744.6	556.6	607.8	454.5
900	0.013	-	855.6	625.8	670.4	501.1	547.2	409.2
800	0.015	-	761.2	556.6	596.3	445.7	486.7	363.9
700	0.017	-	666.7	487.4	522.2	390.3	426.2	318.7
600	0.020	-	572.2	418.2	448.1	334.9	365.7	273.4
500	0.024	-	477.7	349.0	374.0	279.4	305.2	228.1
450	0.026	-	430.4	314.4	336.9	251.7	274.9	205.5
400	0.030	-	383.1	279.8	299.8	224.0	244.6	182.8
350	0.034	-	335.8	245.2	262.7	196.2	214.3	160.2
300	0.040	-	288.5	210.5	225.6	168.5	184.0	137.5
250	0.047	-	241.2	175.9	188.5	140.7	153.7	114.9
200	0.059	-	193.8	141.2	151.4	113.0	123.4	92.2
190	0.062	-	184.3	134.3	143.9	107.4	117.3	87.6
180	0.065	-	174.8	127.3	136.5	101.8	111.2	83.1
170	0.069	-	165.3	120.4	129.0	96.3	105.2	78.6
160	0.073	-	155.8	113.4	121.6	90.7	99.1	74.0
150	0.078	-	146.3	106.4	114.1	85.1	93.0	69.5
140	0.084	-	136.8	99.5	106.7	79.5	86.9	64.9
130	0.090	-	127.2	92.5	99.2	74.0	80.8	60.3
120	0.098	-	117.7	85.5	91.7	68.4	74.7	55.8
110	0.106	-	108.1	78.5	84.2	62.8	68.6	51.2
100	0.117	-	98.5	71.5	76.7	57.1	62.4	46.6

DL1623UC-MPY (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.016	-	712.8	521.6	558.7	418.0	456.3	341.5
900	0.018	-	642.0	469.8	503.2	376.5	411.0	307.6
800	0.020	-	571.3	418.0	447.8	335.0	365.7	273.7
700	0.023	-	500.6	366.3	392.3	293.5	320.5	239.8
600	0.026	-	429.9	314.5	336.9	252.0	275.1	205.9
500	0.032	-	359.1	262.7	281.4	210.5	229.8	172.0
450	0.035	-	323.7	236.8	253.6	189.7	207.1	155.0
400	0.039	-	288.3	210.9	225.9	169.0	184.5	138.0
350	0.045	-	252.9	184.9	198.1	148.2	161.8	121.0
300	0.052	-	217.4	158.9	170.3	127.3	139.0	104.0
250	0.062	-	181.8	132.9	142.4	106.5	116.3	87.0
200	0.078	-	146.2	106.8	114.4	85.6	93.4	69.9
190	0.082	-	139.0	101.6	108.8	81.4	88.8	66.5
180	0.086	-	131.8	96.3	103.2	77.2	84.3	63.0
170	0.091	-	124.7	91.1	97.6	73.0	79.7	59.6
160	0.097	-	117.5	85.8	91.9	68.7	75.1	56.2
150	0.103	-	110.2	80.5	86.3	64.5	70.4	52.7
140	0.110	-	103.0	75.2	80.6	60.3	65.8	49.2
130	0.118	-	95.7	69.9	74.9	56.0	61.2	45.8
120	0.128	-	88.4	64.6	69.2	51.7	56.5	42.3
110	0.140	-	81.0	59.2	63.4	47.4	51.8	38.8
100	0.154	-	73.6	53.8	57.6	43.1	47.0	35.2

DL2523UC-MPY (f=25mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.025	-	454.9	333.3	356.8	267.5	291.8	218.8
900	0.027	-	409.9	300.3	321.5	241.0	263.0	197.2
800	0.031	-	364.9	267.3	286.2	214.6	234.1	175.5
700	0.035	-	319.9	234.4	250.9	188.1	205.2	153.9
600	0.041	-	274.9	201.4	215.6	161.6	176.4	132.2
500	0.049	-	229.9	168.4	180.3	135.2	147.5	110.5
450	0.054	-	207.3	151.9	162.6	121.9	133.0	99.7
400	0.061	-	184.8	135.3	144.9	108.6	118.5	88.9
350	0.069	-	162.2	118.8	127.2	95.3	104.0	78.0
300	0.081	-	139.5	102.2	109.4	82.0	89.5	67.1
250	0.096	-	116.8	85.6	91.6	68.7	74.9	56.2
200	0.120	-	94.0	68.9	73.7	55.3	60.3	45.2
190	0.126	-	89.4	65.5	70.1	52.6	57.4	43.0
180	0.133	-	84.8	62.1	66.5	49.9	54.4	40.8
170	0.140	-	80.2	58.8	62.9	47.2	51.5	38.6
160	0.149	-	75.6	55.4	59.3	44.5	48.5	36.4
150	0.158	-	71.0	52.0	55.7	41.7	45.5	34.1
140	0.170	-	66.3	48.6	52.0	39.0	42.5	31.9
130	0.182	-	61.6	45.1	48.3	36.2	39.5	29.6
120	0.198	-	56.9	41.7	44.6	33.5	36.5	27.4
110	0.216	-	52.1	38.2	40.9	30.6	33.4	25.1
100	0.238	-	47.2	34.6	37.1	27.8	30.3	22.7

DL3525UC-MPY (f=35mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.034	-	332.1	243.0	260.2	195.0	212.8	159.5
900	0.038	-	299.9	219.4	234.9	176.0	192.1	144.0
800	0.042	-	267.6	195.7	209.6	157.1	171.4	128.5
700	0.048	-	235.3	172.1	184.3	138.1	150.6	112.9
600	0.056	-	202.9	148.3	158.9	119.0	129.9	97.3
500	0.066	-	170.4	124.5	133.4	99.9	109.0	81.7
450	0.073	-	154.1	112.6	120.6	90.3	98.6	73.8
400	0.082	-	137.7	100.6	107.7	80.7	88.1	66.0
350	0.093	-	121.2	88.5	94.8	71.0	77.5	58.1
300	0.108	-	104.6	76.4	81.8	61.3	66.9	50.1
250	0.129	-	87.8	64.1	68.7	51.4	56.1	42.0
200	0.160	-	70.8	51.7	55.3	41.4	45.2	33.9
190	0.168	-	67.3	49.1	52.6	39.4	43.0	32.2
180	0.177	-	63.8	46.6	49.9	37.3	40.7	30.5
170	0.188	-	60.3	44.0	47.1	35.3	38.5	28.8
160	0.200	-	56.7	41.4	44.3	33.2	36.2	27.1
150	0.213	-	53.1	38.8	41.5	31.1	33.9	25.4

DL5028UC-MPY (f=50mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1/1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.046	-	246.7	180.5	193.3	144.9	158.1	118.5
900	0.050	-	223.3	163.4	175.0	131.1	143.1	107.3
800	0.056	-	199.9	146.2	156.6	117.4	128.1	96.0
700	0.064	-	176.4	129.0	138.2	103.5	113.0	84.7
600	0.074	-	152.8	111.7	119.6	89.6	97.8	73.3
500	0.087	-	129.0	94.3	101.0	75.7	82.6	61.9
450	0.096	-	117.0	85.6	91.6	68.6	74.9	56.1
400	0.107	-	105.0	76.7	82.2	61.6	67.2	50.4
350	0.122	-	92.8	67.9	72.7	54.4	59.4	44.5
300	0.140	-	80.5	58.9	63.0	47.2	51.5	38.6
250	0.166	-	68.0	49.7	53.2	39.9	43.5	32.6
200	0.205	-	55.2	40.3	43.2	32.3	35.3	26.5

FIELD OF VIEW

MPT Series

F1228-MPT (f=12mm)

Working Distance (mm)	Optical Magnification
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FIELD OF VIEW

V3528-MPY (f=35mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		1"		2/3"	
			H	V	H	V	H	V
1000	0.036	-	393.4	288.2	354.6	266.0	243.9	182.9
900	0.040	-	352.7	258.4	317.9	238.5	218.6	164.0
800	0.046	-	312.1	228.6	281.3	211.0	193.5	145.1
700	0.052	-	271.6	198.9	244.8	183.6	168.3	126.3
600	0.061	-	231.0	169.2	208.2	156.2	143.2	107.4
500	0.075	-	190.4	139.5	171.6	128.8	118.0	88.6
450	0.083	-	170.1	124.6	153.4	115.1	105.5	79.1
400	0.095	-	149.8	109.8	135.1	101.3	92.9	69.7
350	0.110	-	129.5	94.9	116.8	87.6	80.3	60.3
300	0.130	-	109.3	80.1	98.5	73.9	67.8	50.8
250	0.157	1.5	90.4	66.2	81.5	61.1	56.0	42.0
200	0.201	3.0	70.9	51.9	63.9	47.9	43.9	32.9
150	0.277	6.0	51.6	37.7	46.5	34.8	31.9	23.9
100	0.435	15.0	32.9	24.0	29.6	22.2	20.3	15.2

V5028-MPY (f=50mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		1"		2/3"	
			H	V	H	V	H	V
1000	0.055	-	257.9	188.9	232.5	174.4	159.8	119.9
900	0.062	-	229.5	168.1	206.9	155.1	142.2	106.7
800	0.071	-	201.1	147.2	181.2	135.9	124.6	93.4
700	0.082	-	172.7	126.4	155.6	116.7	107.0	80.2
600	0.099	-	144.2	105.6	130.0	97.5	89.4	67.0
500	0.123	-	115.9	84.8	104.4	78.3	71.8	53.8
450	0.138	1.0	103.1	75.4	92.9	69.6	63.8	47.9
400	0.158	2.0	89.9	65.8	81.0	60.7	55.7	41.7
350	0.181	5.0	78.5	57.4	70.7	53.0	48.6	36.4
300	0.222	6.0	64.2	47.0	57.8	43.3	39.7	29.8
250	0.276	10.0	51.7	37.8	46.6	34.9	32.0	24.0
200	0.373	15.0	38.2	27.9	34.4	25.8	23.6	17.7
150	0.583	25.0	24.5	17.9	22.1	16.5	15.1	11.3
100	1.255	61.5	11.3	8.3	10.2	7.7	7.0	5.3

VL0826U-MPZ/V0826-MPZ (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.009	-	1619.6	1211.4	1108.2	825.6	902.4	672.9
900	0.009	-	1460.8	1092.4	999.3	744.4	813.6	606.7
800	0.011	-	1302.0	973.4	890.4	663.2	724.9	540.5
700	0.012	-	1143.3	854.4	781.5	582.0	636.2	474.3
600	0.014	-	984.5	735.4	672.6	500.8	547.5	408.2
500	0.016	-	825.7	616.3	563.7	419.6	458.7	342.0
450	0.018	-	746.3	556.8	509.2	379.0	414.4	308.9
400	0.020	-	666.9	497.3	454.7	338.4	370.0	275.8
350	0.023	-	587.5	437.8	400.3	297.8	325.6	242.7
300	0.027	-	508.0	378.3	345.8	257.2	281.2	209.6
250	0.031	-	428.6	318.7	291.3	216.6	236.9	176.5
200	0.039	-	349.1	259.2	236.8	176.0	192.5	143.4
150	0.050	-	269.6	199.6	182.3	135.4	148.1	110.3
100	0.071	-	189.9	140.0	127.8	94.8	103.7	77.2

MPW3 Series

M0528-MPW3 (f=5mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			2/3"		1/18"		1/25"	
			H	V	H	V	H	V
1000	0.005	-	1811.6	1361.5	1487.1	1108.3	1171.7	876.9
900	0.006	-	1634.3	1228.1	1341.4	999.6	1056.8	790.8
800	0.006	-	1457.0	1094.6	1195.7	890.9	941.9	704.8
700	0.007	-	1279.8	961.2	1050.0	782.2	827.0	618.8
600	0.008	-	1102.5	827.7	904.2	673.5	712.1	532.8
500	0.010	-	925.2	694.2	758.5	564.8	597.2	446.7
450	0.011	-	836.6	627.5	685.7	510.5	539.7	403.7
400	0.012	-	747.9	560.8	612.8	456.1	482.3	360.7
350	0.014	-	659.3	494.0	539.9	401.8	424.8	317.7
300	0.016	-	570.6	427.3	467.1	347.4	367.4	274.7
250	0.019	-	482.0	360.6	394.2	293.1	309.9	231.7
200	0.023	-	393.3	293.8	321.3	238.7	252.5	188.7
150	0.030	-	304.7	227.1	248.5	184.4	195.0	145.7
100	0.043	-	216.0	160.4	175.6	130.0	137.6	102.6

M0828-MPW3 (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			2/3"		1/18"		1/25"	
			H	V	H	V	H	V
1000	0.008	-	1099.4	820.0	896.0	668.7	706.4	530.9
900	0.009	-	990.8	739.0	807.5	602.6	636.6	478.4
800	0.010	-	882.2	657.9	719.0	536.5	566.8	425.9
700	0.012	-	773.7	576.9	630.4	470.4	497.0	373.5
600	0.014	-	665.1	495.9	541.9	404.3	427.1	321.0
500	0.016	-	556.5	414.9	453.4	338.2	357.3	268.5
450	0.018	-	502.3	374.4	409.2	305.2	322.4	242.3
400	0.020	-	448.0	333.9	364.9	272.2	287.6	216.1
350	0.023	-	393.7	293.3	320.6	239.1	252.6	189.8
300	0.027	-	339.4	252.8	276.3	206.0	217.7	163.5
250	0.032	-	285.1	212.3	232.1	173.0	182.8	137.3
200	0.039	-	230.8	171.8	187.8	139.9	147.9	111.1
150	0.051	-	176.5	131.3	143.5	106.9	113.0	84.8
100	0.074	-	122.2	90.7	99.3	73.9	78.1	58.6

M1228-MPW3 (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			2/3"		1/18"		1/25"	
			H	V	H	V	H	V
1000	0.012	-	743.1	557.3	607.9	455.9	481.3	363.0
900	0.013	-	669.7	502.3	547.9	410.9	433.7	327.1
800	0.015	-	596.4	447.2	487.9	365.9	386.2	291.3
700	0.017	-	523.1	392.2	427.9	320.8	338.7	255.4
600	0.020	-	449.8	337.2	367.9	275.8	291.1	219.6
500	0.023	-	376.4	282.1	307.8	230.8	243.6	183.7
450	0.026	-	339.8	254.6	277.8	208.3	219.8	165.8
400	0.029	-	303.1	227.1	247.8	185.7	196.1	147.8
350	0.033	-	266.4	199.6	217.8	163.2	172.3	129.9
300	0.038	-	229.7	172.1	187.8	140.7	148.6	112.0
250	0.046	-	193.1	144.6	157.8	118.2	124.8	94.1
200	0.057	-	156.4	117.1	127.8	95.7	101.0	76.1
150	0.074	-	119.7	89.5	97.7	73.2	77.3	58.2
100	0.107	-	83.0	62.0	67.7	50.6	53.5	40.3

VL1226U-MPZ/V1226-MPZ (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.012	-	1093.8	819.7	750.6	561.0	612.6	458.2
900	0.014	-	986.0	738.8	676.5	505.7	552.2	413.0
800	0.015	-	878.1	658.0	602.5	450.3	491.7	367.7
700	0.017	-	770.3	577.1	528.5	395.0	431.3	322.5
600	0.020	-	662.5	496.3	454.4	339.6	370.8	277.3
500	0.024	-	554.6	415.4	380.4	284.3	310.4	232.1
450	0.026	-	500.7	375.0	343.3	256.6	280.2	209.5
400	0.029	-	446.8	334.6	306.3	228.9	250.0	186.9
350	0.033	-	392.9	294.1	269.3	201.2	219.7	164.3
300	0.039	-	338.9	253.7	232.3	173.5	189.5	141.7
250	0.046	-	285.0	213.3	195.3	145.9	159.3	119.1
200	0.057	-	231.1	172.9	158.2	118.2	129.1	96.5
150	0.074	-	177.2	132.4	121.2	90.5	98.9	73.9
100	0.106	-	123.2	92.0	84.2	62.8	68.6	51.3

VL1624U-MPZ/V1624-MPZ (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			1"		2/3"		1/18"	
			H	V	H	V	H	V
1000	0.016	-	811.4	608.4	557.5	417.6	455.7	341.5
900	0.018	-	761.1	548.1	502.3	376.6	410.6	370.7
800	0.020	-	650.8	487.9	447.1	334.9	365.5	273.8
700	0.023	-	570.5	427.7	391.9	293.6	320.4	240.0
600	0.027	-	490.2	367.4	336.7	252.2	275.2	206.2
500	0.032	-	409.8	307.2	281.5	210.9	230.1	172.4
450	0.035	-	369.7	277.1	253.9	190.2	207.6	155.5
400	0.039	-	329.5	247.0	226.3	169.5	185.0	138.6
350	0.045	-	289.4	216.9	198.7	148.8	162.4	121.7
300	0.052	-	249.2	186.8	171.1	128.2	139.9	104.8
250	0.062	-	209.1	156.6	143.5	107.5	117.3	87.9
200	0.077	-	168.9	126.5	115.9	86.8	94.8	71.0
150	0.101	-	128.7	96.4	88.3	66.2	72.2	54.1
100	0.146	-	88.6	66.3	60.7	45.5	49.6	37.2

FIELD OF VIEW

M0814-MP2/M0814-VSW (f=8mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.009	-	976.8	731.5	709.1	530.1
800	0.010	-	869.8	651.3	631.4	471.9
700	0.012	-	762.8	571.1	553.6	413.8
600	0.014	-	655.8	490.9	475.8	355.6
500	0.016	-	548.8	410.7	398.1	297.5
450	0.018	-	495.3	370.6	359.2	268.4
400	0.020	-	441.8	330.5	320.3	239.3
350	0.023	-	388.3	290.4	281.4	210.2
300	0.027	-	334.8	250.3	242.6	181.2
250	0.032	-	281.2	210.2	203.7	152.1
200	0.039	-	227.7	170.0	164.8	123.0
150	0.052	-	174.2	129.9	125.9	93.9
100	0.075	-	120.7	89.8	87.0	64.9

M1214-MP2/M1214-VSW (f=12mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.013	-	672.7	504.0	488.7	366.0
800	0.015	-	599.1	448.9	435.2	325.9
700	0.017	-	525.6	393.7	381.7	285.8
600	0.020	-	452.1	338.5	328.2	245.7
500	0.023	-	378.5	283.4	274.7	205.7
450	0.026	-	341.7	255.8	248.0	185.6
400	0.029	-	305.0	228.2	221.2	165.6
350	0.033	-	268.2	200.6	194.5	145.6
300	0.038	-	231.4	173.0	167.7	125.5
250	0.046	-	194.7	145.5	141.0	105.5
200	0.056	-	157.9	117.9	114.3	85.4
150	0.074	-	121.1	90.3	87.5	65.4
100	0.106	0.5	84.3	62.7	60.8	45.4

M1614-MP2/M1614-VSW (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)			
			2/3"		1/2"	
			H	V	H	V
900	0.018	-	503.2	376.8	365.4	273.7
800	0.020	-	448.0	335.5	325.3	243.6
700	0.023	-	392.8	294.1	285.2	213.6
600	0.026	-	337.6	252.8	245.1	183.5
500	0.031	-	282.5	211.4	204.9	153.5
450	0.035	-	254.9	190.7	184.9	138.4
400	0.039	-	227.3	170.0	164.8	123.4
350	0.044	-	199.7	149.4	144.8	108.4
300	0.052	-	172.1	128.7	124.7	93.4
250	0.061	-	144.5	108.0	104.7	78.3
200	0.076	-	116.9	87.3	84.6	63.3
150	0.100	0.5	89.3	66.6	64.6	48.3
100	0.145	1.0	61.7	45.9	44.5	33.2

M1618-APVSW (f=16mm)

Working Distance (mm)	Optical Magnification	Extension Ring (mm)	Field of View (mm)					
			2/3"		IMX990		IMX991	
			H	V	H	V	H	V
1000	0.016	-	565.1	423.1	410.2	327.7	204.5	163.5
900	0.017	-	509.4	381.3	369.7	295.4	184.3	147.4
800	0.020	-	453.8	339.6	329.3	263.1	164.1	131.2
700	0.022	-	398.7	298.4	289.2	231.1	144.2	115.3
600	0.026	-	343.6	257.1	249.2	199.1	124.2	99.3
500	0.031	-	288.5	215.7	209.1	167.0	104.2	83.3
450	0.034	-	260.9	195.1	189.1	151.0	94.2	75.3
400	0.038	-	233.3	174.4	169.0	135.0	84.2	67.3
350	0.043	-	205.6	153.6	148.9	118.9	74.1	59.3
300	0.050	-	178.4	133.2	129.1	103.1	64.3	51.4
250	0.059	-	151.5	113.0	109.5	87.4	54.5	43.6
200	0.072	-	123.4	92.0	89.2	71.1	44.3	35.4
190	0.076	-	117.9	87.8	85.1	67.9	42.3	33.8
180	0.080	-	112.3	83.7	81.1	64.7	40.3	32.2
170	0.084	-	106.8	79.5	77.1	61.5	38.3	30.6
160	0.089	-	101.2	75.4	73.0	58.3	36.3	29.0
150	0.094	-	95.7	71.2	69.0	55.0	34.3	27.4
140	0.100	-	90.1	67.1	65.0	51.8	32.3	25.8
130	0.106	-	84.6	62.9	61.0	48.6	30.2	24.2
120	0.114	-	79.0	58.8	56.9	45.4	28.2	22.6
110	0.122	-	73.5	54.6	52.9	42.2	26.2	21.0
100	0.133	-	68.0	50.5	48.9	39.0	24.2	19.4

MACRO ZOOM LENS / TELECENTRIC MACRO LENS

TEC-V7X

Working Distance (mm)	Optical Magnification	Field of View (mm)											
		1 1/2"			1"			2/3"					
		H	V	D	H	V	D	H	V	D			
182	Wide	0.2525	48.74	48.74	69.12	50.32	38.06	63.28	34.88	26.16	43.6		
	Middle	0.3643	33.64	33.64	47.33	34.72	26.3	43.6	24.12	18.1	30.11		
	Tele	0.5	24.6	24.6	34.75	25.4	19.246	31.88	17.65	13.26	22		
200	Wide	0.2258	54.52	54.62	76.94	56.3	42.56	70.84	39	29.24	48.76		
	Middle	0.3258	37.62	37.62	52.95	38.83	29.4	48.78	26.96	20.24	33.67		
	Tele	0.4451	27.5	27.5	38.68	28.38	21.51	35.64	19.72	14.81	24.62		
300	Wide	0.1413	87.48	87.48	124.06	90.34	68.18	114.1	62.46	46.8	78.178		
	Middle	0.2037	60.24	60.24	85.34	62.18	47.06	78.18	42.15	32.38	53.898		
	Tele	0.2784	44	44	61.94	45.42	34.3	57.46	31.55	23.69	39.38		
400	Wide	0.1037	119.47	119.47	169.98	123.4	93.02	156.05	85.2	63.82	106.71		
	Middle	0.1495	82.15	82.15	115.97	84.8	64.16	106.72	58.82	44.12	73.48		
	Tele	0.2042	59.99	59.99	84.52	61.92	46.89	77.82	43	32.28	53.7		
500	Wide	0.082	151.25	151.25	215.44	156.25	117.67	197.8	107.78	80.68	135.04		
	Middle	0.1183	103.92	103.92	146.82	107.28	81.12	135	74.37	55.78	92.94		
	Tele	0.1617	75.84	75.84	106.89	78.29	59.28	98.4	54.36	40.8	67.88		
5775	Wide	0.0708	175.21	175.21	250.66	181.4	136.35	229.82	125.08	93.62	156.76		
	Middle	0.102	120.57	120.57	170.44	124.47	94.1	156.74	86.28	64.72	107.84		
	Tele	0.1398	87.99	87.99	124.04	90.8	68.75	114.16	63.06	47.32	78.74		

TEC-M55MPW

Working Distance (mm)	Optical Magnification	Field of View (mm)					
		2/3"		1/2"		1/3"	
		H	V	H	V	H	V
1000	0.057	154.4	115.8	112.3	84.2	84.2	63.2
950	0.060	146.7	110.0	106.7	80.0	80.0	60.0
900	0.064	137.5	103.1	100.0	75.0	75.0	56.3
850	0.067	131.3	98.5	95.5	71.6	71.6	53.7
800	0.072	122.2	91.7	88.9	66.7	66.7	50.0
750	0.077	114.3	85.7	83.1	62.3	62.3	46.8
700	0.083	106.0	79.5	77.1	57.8	57.8	43.4
650	0.089	98.9	74.2	71.9	53.9	53.9	40.4
600	0.097	90.7	68.0	66.0	49.5	49.5	37.1
550	0.106	83.0	62.3	60.4	45.3	45.3	34.0
500	0.118	74.6	55.9	54.2	40.7	40.7	30.5
450	0.132	66.7	50.0	48.5	36.4	36.4	27.3
400	0.150	58.7	44.0	42.7	32.0	32.0	24.0
350	0.173	50.9	38.2	37.0	27.7	27.7	20.8
300	0.204	43.1	32.4	31.4	23.5	23.5	17.6
250	0.251	35.1	26.3	25.5	19.1	19.1	14.3
200	0.323	27.2	20.4	19.8	14.9	14.9	11.1
150	0.456	19.3	14.5	14.0	10.5	10.5	7.9
140	0.504	17.5	13.1	12.7	9.5	9.5	7.1

M2518-APVSW (f=25mm)

Working Distance	Optical Magnification	Extension Ring	Field of View (mm)					
			2/3"		IMX990		IMX991	
(mm)		(mm)	H	V	H	V	H	V
1000	0.025	-	355.6	266.6	258.5	206.7	129.1	103.3
900	0.028	-	320.1	240.0	232.7	186.1	116.3	93.0
800	0.031	-	284.8	213.6	207.1	165.6	103.5	82.8
700	0.035	-	249.5	187.0	181.3	145.0	90.6	72.5
600	0.041	-	214.1	160.5	155.7	124.5	77.8	62.2
500	0.049	-	178.9	134.1	130.1	104.0	65.0	52.0
450	0.055	-	161.4	120.9	117.3	93.8	58.6	46.9
400	0.061	-	143.8	107.8	104.5	83.6	52.2	41.8
350	0.070	-	126.3	94.6	91.8	73.4	45.8	36.7
300	0.081	-	108.8	81.5	79.0	63.2	39.5	31.6
250	0.097	-	91.3	68.4	66.3	53.0	33.1	26.5
200	0.120	-	73.8	55.3	53.6	42.8	26.8	21.4
190	0.126	-	70.3	52.7	51.1	40.8	25.5	20.4
180	0.132	-	66.8	50.0	48.5	38.8	24.2	19.4
170	0.140	-	63.3	47.4	46.0	36.7	22.9	18.3
160	0.148	-	59.8	44.8	43.4	34.7	21.7	17.3
150	0.157	-	56.3	42.2	40.9	32.7	20.4	16.3
140	0.168	-	52.9	39.6	38.4	30.6	19.1	15.3
130	0.179	-	49.4	36.9	35.8	28.6	17.9	14.3
120	0.193	-	45.9	34.3	33.3	26.6	16.6	13.3
110	0.209	-	42.4	31.7	30.8	24.6	15.3	12.3
100	0.228	-	39.0	29.1	28.2	22.6	14.1	11.3

TEC-M55

TEC-M55

Working Distance Distance (mm)	Optical Magnification	Field of View (mm)					
		2/3"		1/2"		1/3"	
		H	V	H	V	H	V
5000	0.011	796.2	597.8	579.7	435.0	435.0	326.3
4000	0.014	636.1	477.6	463.1	347.5	347.5	260.7
3000	0.018	476.0	357.4	346.6	260.1	260.1	195.1
2000	0.028	315.9	237.2	230.0	172.6	172.6	129.5
1500	0.037	235.9	177.1	177.1	128.9	128.9	96.7
1000	0.056	155.8	117.0	113.4	85.1	85.1	63.9
950	0.059	147.8	111.0	107.6	80.7	80.7	60.6
900	0.063	139.8	105.0	101.8	76.4	76.4	57.3
850	0.067	131.8	99.0	96.0	72.0	72.0	54.0
800	0.071	123.8	92.9	90.1	67.6	67.6	50.7
750	0.076	115.8	86.9	84.3	63.2	63.2	47.4
700	0.081	107.8	80.9	78.5	58.9	58.9	44.2
650	0.088	99.8	74.9	72.6	55.5	54.5	40.9
600	0.096	91.8	68.9	66.8	50.1	50.1	37.6
550	0.105	83.8	62.9	61.0	45.8	45.8	34.3
500	0.116	75.8	56.9	55.2	41.4	41.4	31.0
450	0.130	67.8	50.9	49.3	37.0	37.0	27.8
400	0.147	59.8	44.9	43.5	32.6	32.6	24.5
350	0.170	51.8	38.8	37.7	28.3	28.3	21.2
300	0.201	43.8	32.8	31.8	23.9	23.9	17.9
250	0.246	35.7	26.8	26.0	19.5	19.5	14.6
200	0.317	27.7	20.8	20.2	15.1	15.1	11.4
150	0.446	19.7	14.8	14.3	10.8	10.8	8.1
140	0.486	18.1	13.6	13.2	9.9	9.9	7.4

TEC-M55 with 0.75X Converter

Working Distance Distance (mm)	Optical Magnification	Field of View (mm)					
		2/3"		1/2"		1/3"	
		H	V	H	V	H	V
5000	0.008	1066.2	797.6	773.3	579.2	579.2	434.0
4000	0.010	851.9	637.3	617.8	462.7	462.7	346.8
3000	0.014	637.6	476.9	462.4	346.3	346.3	259.5
2000	0.021	423.2	316.6	306.9	229.9	229.9	172.3
1500	0.028	316.1	236.4	229.2	171.7	171.7	128.6
1000	0.423	208.9	156.2	151.5	113.4	113.4	85.0
950	0.045	198.2	148.2	143.7	107.6	107.6	80.6
900	0.047	187.4	140.2	135.9	101.8	101.8	76.3
850	0.050	176.7	132.2	128.1	96.0	96.0	71.9
800	0.053	166.0	124.2	120.4	90.1	90.1	67.5
750	0.057	155.3	116.1	112.6	84.3	84.3	63.2
700	0.061	144.6	108.1	104.8	78.5	78.5	58.8
650	0.066	133.8	100.1	97.0	72.7	72.7	54.5
600	0.072	123.1	92.1	89.3	66.8	66.8	50.1
550	0.079	112.4	84.1	81.5	61.0	61.0	45.7
500	0.087	101.7	76.0	73.7	55.2	55.2	41.4
450	0.097	90.9	68.0	65.9	49.4	49.4	37.0
400	0.110	80.2	60.0	58.2	43.6	43.6	32.6
350	0.127	69.5	52.0	50.4	37.7	37.7	28.3
300	0.151	58.7	43.9	42.6	31.9	31.9	23.9
250	0.184	48.0	35.9	34.8	26.1	26.1	19.5
200	0.238	37.3	27.9	27.0	20.2	20.2	15.2
150	0.334	26.5	19.8	19.2	14.4	14.4	10.8
140	0.363	24.4	18.2	17.7	13.2	13.2	9.9

TEC-M55 with 2X Converter

Working Distance Distance (mm)	Optical Magnification	Field of View (mm)					
		2/3"		1/2"		1/3"	
		H	V	H	V	H	V
5000	0.019	453.1	340.3	330.0	247.7	247.7	185.8
4000	0.024	362.0	271.9	263.6	197.9	197.9	148.5
3000	0.032	270.9	203.4	197.3	148.1	148.1	111.1
2000	0.049	179.8	135.0	130.9	98.3	98.3	73.7
1500	0.065	134.3	100.8	97.8	73.4	73.4	55.0
1000	0.098	88.7	66.6	64.6	48.5	48.5	36.4
950	0.104	84.1	63.2	61.3	46.0	46.0	34.5
900	0.110	79.6	59.8	58.0	43.5	43.5	32.6
850	0.116	75.0	56.3	54.6	41.0	41.0	30.8
800	0.124	70.5	52.9	51.3	38.5	38.5	28.9
750	0.133	65.9	49.5	48.0	36.0	36.0	27.0
700	0.142	61.4	46.1	44.7	33.5	33.5	25.2
650	0.154	56.8	42.7	41.4	31.0	31.0	23.3
600	0.167	52.3	39.2	38.1	28.6	28.6	21.4
550	0.183	47.7	35.8	34.7	26.1	26.1	19.6
500	0.203	43.2	32.4	31.4	23.6	23.6	17.7
450	0.227	38.6	29.0	28.1	21.1	21.1	15.8
400	0.257	34.0	25.6	24.8	18.6	18.6	14.0
350	0.297	29.5	22.1	21.5	16.1	16.1	12.1
300	0.352	24.9	18.7	18.2	13.6	13.6	10.2
250	0.431	20.4	15.3	14.8	11.1	11.1	8.4
200	0.558	15.8	11.9	11.5	8.7	8.7	6.5
150	0.789	11.3	8.5	8.2	6.2	6.2	4.6
140	0.861	10.4	7.8	7.6	5.7	5.7	4.3

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TEC-V Series / TEC-M Series

TEC-V0345165MPY-WI

Field of View	
1.1"	41.1 × 30.1mm
1"	38.3 × 25.2mm
2/3"	25.5 × 19.1mm
1/1.8"	20.9 × 15.4mm
1/2"	18.6 × 13.9mm

TEC-V0565MPW

Field of View	
1"	25.6 × 19.2mm
2/3"	17.6 × 13.2mm
1/1.8"	14.4 × 10.8mm
1/2"	12.8 × 9.6mm

TEC-V1065MPW

Field of View	
1"	12.8 × 9.6mm
2/3"	8.8 × 6.6mm
1/1.8"	7.2 × 5.4mm
1/2"	6.4 × 4.8mm

TEC-V05110MPW

Field of View	
1"	25.6 × 19.2mm
2/3"	17.6 × 13.2mm
1/1.8"	14.4 × 10.8mm
1/2"	12.8 × 9.6mm

TEC-V10110MPW

Field of View	
1"	12.8 × 9.6mm
2/3"	8.8 × 6.6mm
1/1.8"	7.2 × 5.4mm
1/2"	6.4 × 4.8mm

TEC-M0565MPC /
TEC-M0565MP

Field of View	
2/3"	17.6 × 13.2mm
1/1.8"	14.35 × 10.64mm
1/2"	12.8 × 9.6mm
1/3"	9.6 × 7.2mm

TEC-M0865MPC /
TEC-M0865MP

Field of View	
2/3"	11 × 8.25mm
1/1.8"	8.97 × 6.65mm
1/2"	8 × 6mm
1/3"	6 × 4.5mm

TEC-M1065MPC /
TEC-M1065MP

Field of View	
2/3"	8.8 × 6.6mm
1/1.8"	7.18 × 5.32mm
1/2"	6.4 × 4.8mm
1/3"	4.8 × 3.6mm

TEC-M2065MPC /
TEC-M2065MP

Field of View	
2/3"	4.4 × 3.3mm
1/1.8"	3.59 × 2.66mm
1/2"	3.2 × 2.4mm
1/3"	2.4 × 1.8mm

TEC-M4065MPC /
TEC-M4065MP

Field of View	
2/3"	2.2 × 1.65mm
1/1.8"	1.79 × 1.33mm
1/2"	1.6 × 1.2mm
1/3"	1.2 × 0.9mm

TEC-M6065MPC /
TEC-M6065MP

Field of View	
2/3"	1.47 × 1.1mm
1/1.8"	1.2 × 0.89mm
1/2"	1.07 × 0.8mm
1/3"	0.8 × 0.6mm

TEC-M03110MPC /
TEC-M03110MP

Field of View	
2/3"	29.3 × 22mm
1/1.8"	23.9 × 17.7mm
1/2"	21.3 × 16mm
1/3"	16 × 12mm

TEC-M05110MPC /
TEC-M05110MP

Field of View	
2/3"	17.6 × 13.2mm
1/1.8"	14.35 × 10.64mm
1/2"	12.8 × 9.6mm
1/3"	9.6 × 7.2mm

TEC-M08110MPC /
TEC-M08110MP

Field of View	
2/3"	11 × 8.25mm
1/1.8"	8.97 × 6.65mm
1/2"	8 × 6mm
1/3"	6 × 4.5mm

TEC-M10110MPC /
TEC-M10110MP

Field of View	
2/3"	8.8 × 6.6mm
1/1.8"	7.18 × 5.32mm
1/2"	6.4 × 4.8mm
1/3"	4.8 × 3.6mm



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