computar®

MACHINE VISION NEW PRODUCT GUIDE

CBC GROUP

computar.com

1” 10 MEGAPIXEL C-MOUNT LENS

• Good Performance from MOD to INF for floating Design • Compact Size (Ø35 ~ 40mm) • Sensors IMX255 / PYTHON 5000 • f = (8) / 12 / 16 / 25 / 35 / 50 / 75

Tentative	10MP  Sample Image	10MP 	10MP  Sample Image
	10MP	**10MP**	**10MP**
Model	V08**-MPZ	V1226-MPZ	V1624-MPZ
Format	1”	1”	1”
Mount	C	C	C
Focal Length	8mm	12mm	16mm
Angle of view	TBD	56.7°	43.8°
Aperture	TBD	F2.6	F2.4
Iris	Manual	Manual	Manual
	Under Development		Under Development

Tentative	10MP 	10MP  Sample Image	10MP  Sample Image	10MP  Sample Image
	10MP	**10MP**	**10MP**	**10MP**
Model	V2520-MPZ	V3522-MPZ	V5024-MPZ	V7531-MPZ
Format	1”	1”	1”	1”
Mount	C	C	C	C
Focal Length	25mm	35mm	50mm	75mm
Angle of view	28.8°	20.8°	14.6°	TBD
Aperture	F2.0	F2.2	F2.4	F3.1
Iris	Manual	Manual	Manual	Manual
		Under Development	Under Development	Under Development

1.1” 12 MEGAPIXEL LENS FOR ITS / ANPR

• Two types of Iris: Manual & P-Iris • Four different types of Target Sensors: IMX253 / 304 & IMX 255 / 269

Tentative	12MP  Sample Image	12MP  Sample Image
	12MP	**12MP**
Model	V3518FIC-MPYIR	VG3518KC-MPYIR
Format	1.1”	1.1”
Mount	C	C
Focal Length	35mm	35mm
Angle of view	23.0°	23.0°
Aperture	F1.8	F1.8
Iris	Manual	P-Iris
IR	☑	☑
	Under Development	Under Development

16mm / 25mm / 50mm are under development

1/1.8” 6 MEGAPIXEL CS-MOUNT LENS

	4K 	4K 
	4K	**4K**
Model	EG6Z0915KCS-MPWIR	EG6Z0915FCS-MPWIR
Format	1/1.8”	1/1.8”
Mount	CS	CS
Focal Length	9.0 - 50.0mm	9.0 - 50.0mm
Angle of view (16:9)	46.1° - 9.0°	46.1° - 9.0°
Aperture	F1.5	F1.5
Iris	Stepping Motor Iris	DC-Iris
IR	☑	☑

12 MEGAPIXEL TELECENTRIC LENS

	Resolution	Format	Mount	Magnification	Working Distance	Image Circle	Effective F-Number	Iris	Resolving Power
TEC-V0345165MPY-WI	12MP	1.1″	C	0.345x	165.2mm	Ø17.6mm	5.0-32.4	Variable Iris	9.7µm

HIGH-MAGNIFICATION TELECENTRIC LENS

					
Straight Type	**2MP**	**2MP**	**2MP**	**2MP**	**2MP**
Model	TEC-M4065MP	TEC-M6065MP	TEC-M30110MP	TEC-M40110MP	TEC-M60110MP
Format	2/3″	2/3″	2/3″	2/3″	2/3″
Mount	C	C	C	C	C
Magnification	4.0x	6.0x	3.0x	4.0x	6.0x
Working Distance	65.3mm	64mm	111.4mm	110.5mm	110mm
Image Circle	12.8mm	12.8mm	12.8mm	11mm	12.8mm
Effective F-Number	16.9	25.5	16.0	21.9	39.6
Resolving Power	2.9µm	2.9µm	3.6µm	3.7µm	4.4µm

					
Coaxial Type	**2MP**	**2MP**	**2MP**	**2MP**	**2MP**
Model	TEC-M4065MPC	TEC-M6065MPC	TEC-M30110MPC	TEC-M40110MPC	TEC-M60110MPC
Format	2/3″	2/3″	2/3″	2/3″	2/3″
Mount	C	C	C	C	C
Magnification	4.0x	6.0x	3.0x	4.0x	6.0x
Working Distance	65.3mm	64mm	111.4mm	110.5mm	110mm
Image Circle	12.8mm	12.8mm	12.8mm	11mm	12.8mm
Effective F-Number	16.9	25.5	16.0	21.9	39.6
Resolving Power	2.9µm	2.9µm	3.6µm	3.7µm	4.4µm

SPECIALTY BOARD LENS

S Mount Fisheye Lenses

12MP 
E1628KRY
1/1.8" For IMX226
190°, F2.8, IR

12MP 
E1222KRY
1/1.8" For IMX226
185°, F2.2, IR
IV Enables Compatible

5MP 
L1028KRW
1/2.5"
185°, F2.8, IR
IV Enables Compatible

3MP 
T0928KRW
1/3"
180°, F2.8, IR
IV Enables Compatible

1MP 
H1328KP
1/2"
180°, F2.8
IV Enables Compatible

1/1.8" S Mount Board Lenses

4K 
E3828KRW
3.8mm, F2.8
106.9° (HFOV)
Day/Night

4K 
E5228KRW
5.2mm, F2.8
78.6° (HFOV)
Day/Night

LWIR - Long-wavelength IR (8-12um)


TH17V1311-34
13mm, F1.1, 50.3° (HFOV)


TH17V1810-34
18.8mm, F1.0, 32.9° (HFOV)


TH17V3511-34
35mm, F1.1, 17.7° (HFOV)

NEW Panorama Fisheye Lens

4K 
E2328KRY
1/1.8" For IMX334
2.3mm, F2.8, 190° (HFOV), IR
under development

NEW Circular Fisheye Lens

9MP 
V3428KRY
1" For IMX533
3.43mm, F2.8, 190° (HFOV), IR
under development

NEW CATADIOPTRIC ZOOM LENS

	2MP 	2MP 
	2MP	**2MP**
Model	TBA	TBA
Format	1/1.8"	1/1.8"
Mount	C	C
Focal Length	520 - 1300mm	800mm
Angle of view (HxV)	0.774° x 0.582° (Wide) 0.310° x 0.233° (Tele)	0.50° x 0.38°
Aperture	T4.7 (Wide) T11.8 (Tele)	T8.0
Iris	—	—
IR	☑	☑
	Under Development	Under Development

RUGGEDIZED LENS SERIES

As machine vision applications continue to expand into more demanding environments, maintaining optical integrity with vibrations, shocks, and temperature changes is critical. Computar has designed the MPW2-R Ruggedized Lens Series, a ruggedized version of its popular 5 MP, 2/3" MPW2 Series of machine vision lenses. Computar's MPW2-R Ruggedized Lens Series feature:

- Minimizes Image Aberrations from shock & vibration
- Same optics as existing Computar's MPW2 series
- 8mm, 12mm, 16mm, 25mm, 35mm and 50mm options
- Redundant Focus: Adjustable with double nut mechanism
- All elements are bonded to the lens body
- Durability: 10G
- More compact than Computar's MPW2 Series

RUGGEDIZED FOR MACHINE VISION

2/3" 5 MEGAPIXEL RUGGEDIZED LENS

RUGGEDIZED FOR MACHINE VISION	5MP 	5MP 	5MP 
	5MP	**5MP**	**5MP**
Model	M0824-MPW2-R Series	M1224-MPW2-R Series	M1620-MPW2-R Series
Format	2/3"	2/3"	2/3"
Mount	C	C	C
Focal Length	8mm	12mm	16mm
Angle of view (16:9)	57.8°	39.8°	30.7°
Aperture	F2.4/F4.0/F5.6/F8.0/F11.0	F2.4/F4.0/F5.6/F8.0/F11.0	F2.0/F4.0/F5.6/F8.0/F11.0
Iris	Fix	Fix	Fix

RUGGEDIZED FOR MACHINE VISION	5MP 	5MP 	5MP 
	5MP	**5MP**	**5MP**
Model	M2518-MPW2-R Series	M3520-MPW2-R Series	M5028-MPW2-R Series
Format	2/3"	2/3"	2/3"
Mount	C	C	C
Focal Length	25mm	35mm	50mm
Angle of view (16:9)	19.9°	14.3°	10.0°
Aperture	F1.8/F4.0/F5.6/F8.0/F11.0	F2.0/F4.0/F5.6/F8.0/F11.0	F2.8/F4.0/F5.6/F8.0/F11.0
Iris	Fix	Fix	Fix

i-CS LENSES - NEW INDUSTRY STANDARD IN INTELLIGENT OPTICS

The i-CS series of intelligent lenses are engineered to optimize IP image quality by exchanging information from the lens, to the camera. By communicating lens specifications such as model type, manufacturer, geometrical distortion, focal length, and F-stop, manual configuration time is drastically reduced. i-CS compatible cameras can call up lens information on demand delivering application-specific functions for the selected video surveillance Installation. By allowing remote zoom, EIS and BDC adjustment, set-up time is further streamlined.

To communicate with the lens, network cameras with support for i-CS lenses use an open protocol co-developed by Axis Communications® and Computar®. Thanks to the information from the lens and the use of the protocol, the camera can optimize its image quality at all times. Using data from the lens about geometrical distortion, it performs barrel distortion correction (BDC). The lens also contains information that enables the camera to stabilize the image automatically using electronic image stabilization (EIS).

i-CS	6MP 	4K 	4K NEW 
	6MP	**4K**	**4K**
Model	AG3Z2812TCS-MPWIR	EG3Z3915TCS-MPWIR	EG3Z0409TCS-MPWIR
Format	1/2.7″	1/1.8″	1/1.8″
Mount	CS	CS	CS
Focal Length	2.8 - 8.5mm	3.9 - 10mm	4.0 - 10mm
Angle of view (16:9)	124.7° - 41.3°	108.1° - 41.1°	120.1° - 46.3°
Aperture	F1.2	F1.5	F0.9
Iris	Stepping Motor Iris	Stepping Motor Iris	Stepping Motor Iris
IR	☑	☑	☑
			Under Development

i-CS	4K NEW 	3MP 	2MP 
	4K	**3MP**	**2MP**
Model	EG6Z0915TCS-MPWIR	E24Z1018T-MPIR	H62Z1235T-MPIR
Format	1/1.8″	1/1.8″	1/2″
Mount	CS	C	C
Focal Length	9 - 50mm	10 - 240mm	12.5 - 775mm 25 - 1550mm (w/Ext.)
Angle of view (16:9)	46.1° - 9.0°	39° - 1.7°	28.77° - 0.47°
Aperture	F1.5	F1.8	F3.5
Iris	Stepping Motor Iris	Stepping Motor Iris	Stepping Motor Iris
IR	☑	☑	☑
			Under Development

*For use with i-CS compatible IP cameras

CBC AMERICA LLC

COMPUTAR OPTICS GROUP

East Coast +1.919.230.8700 | West Coast +1.310.222.8600

www.computar.com

CBC Co.,Ltd, HEADQUARTERS

INDUSTRIAL OPTICS DEPARTMENT

Tokyo, Japan +81 (0) 3 3536 4765

www.computar-global.com