



SWIR
for MACHINE VISION



Innovative Coating

Unique coating technology delivers high transmission from 800nm-1,700nm

Get the Perfect View

Four high-resolution models in a range of focal lengths (16mm/25mm/35mm/50mm)

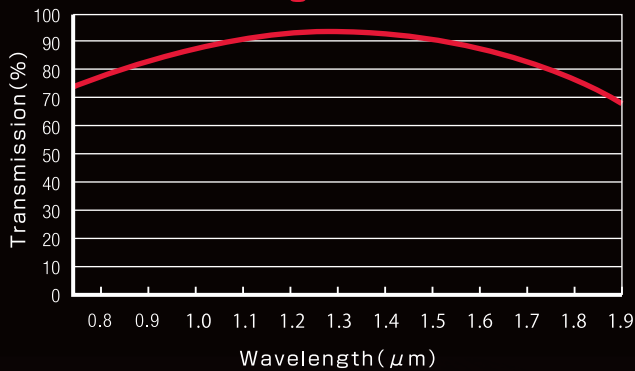
Compatible with Most Cameras

Designed around the popular ϕ 12.3mm image circle format

The Right Solution

Specifically designed for Machine Vision applications in NIR and SWIR

IR Coating Transmission



SPEC

MODEL NO.	Format	Focal Length(f)	Aperture	M.O.D.
M1614-SW	2/3"(ϕ 12.3mm)	16mm	F1.4	0.3m
M2514-SW	2/3"(ϕ 12.3mm)	25mm	F1.4	0.3m
M3514-SW	2/3"(ϕ 12.3mm)	35mm	F1.4	0.3m
M5018-SW	2/3"(ϕ 12.3mm)	50mm	F1.8	0.6m

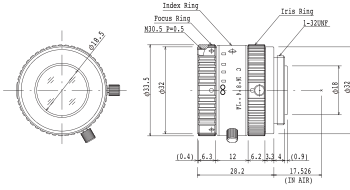
EHD imaging GmbH
Zum Rennplatz 15
49401 Damme/Germany
Phone: +49-5491-2090
Fax: +49-5491-2098
web: www.ehd.de
e-mail: info@ehdimaging.de



M1614-SW



Focal Length	16mm	
Max. Aperture Ratio	1:1.4	
Max. Image Circle	φ 12.3mm	
Operation Range	Iris F1.4 - F16C	
Focus	0.3m - Inf.	
Control	Iris Manual	
Focus	Manual	
Object Dimension at M.O.D.	17.0(H)cm x 12.7(V)cm 2/3"	
D	37.7°	27.9°
Angle of View	H 2/3" 30.6° 1/2" 22.5°	
V	23.2°	16.9°
Operating Temperature	-10°C ~ +50°C	



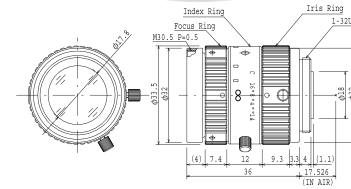
Distortion	2/3" -0.5% (y=5.5)	1/2" -0.5% (y=4.0)
Back Focal Length	13.3mm (Inf)	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	φ 33.5mm x 28.2mm	
Weight	60g	

Angle of View (InGaAs Detector)	D	640 x 512 (Pixel Pitch : 15μm)	41.7°	320 x 256 (Pixel Pitch : 25μm)	35.3°	320 x 256 (Pixel Pitch : 20μm)	28.6°
	H	H9.60mm x V7.68mm	33.2°	H8.00mm x V6.40mm	27.9°	H6.40mm x V5.12mm	22.5°
	V		26.8°		22.5°		18.0°

M2514-SW



Focal Length	25mm	
Max. Aperture Ratio	1:1.4	
Max. Image Circle	φ 12.3mm	
Operation Range	Iris F1.4 - F16C	
Focus	0.3m - Inf.	
Control	Iris Manual	
Focus	Manual	
Object Dimension at M.O.D.	10.5(H)cm x 7.8(V)cm 2/3"	
D	24.7°	18.1°
Angle of View	H 2/3" 19.8° 1/2" 14.5°	
V	14.9°	10.9°
Operating Temperature	-10°C ~ +50°C	



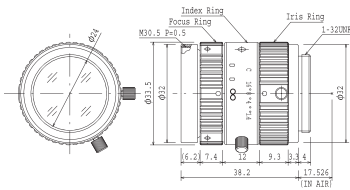
Distortion	2/3" -0.5% (y=5.5)	1/2" -0.2% (y=4.0)
Back Focal Length	13.4mm (Inf)	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	φ 33.5mm x 36.0mm	
Weight	71.2g	

Angle of View (InGaAs Detector)	D	640 x 512 (Pixel Pitch : 15μm)	27.6°	320 x 256 (Pixel Pitch : 25μm)	23.0°	320 x 256 (Pixel Pitch : 20μm)	18.5°
	H	H9.60mm x V7.68mm	21.6°	H8.00mm x V6.40mm	18.1°	H6.40mm x V5.12mm	14.5°
	V		17.3°		14.5°		11.6°

M3514-SW



Focal Length	35mm	
Max. Aperture Ratio	1:1.4	
Max. Image Circle	φ 12.3mm	
Operation Range	Iris F1.4 - F16C	
Focus	0.3m - Inf.	
Control	Iris Manual	
Focus	Manual	
Object Dimension at M.O.D.	8.0(H)cm x 6.0(V)cm 2/3"	
D	18.4°	13.4°
Angle of View	H 2/3" 14.7° 1/2" 10.7°	
V	11.1°	8.1°
Operating Temperature	-10°C ~ +50°C	



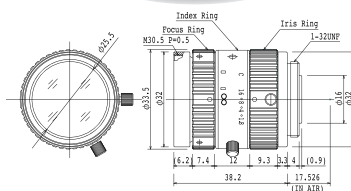
Distortion	2/3" -0.1% (y=5.5)	1/2" -0% (y=4.0)
Back Focal Length	14.6mm	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	φ 33.5mm x 38.2mm	
Weight	87g	

Angle of View (InGaAs Detector)	D	640 x 512 (Pixel Pitch : 15μm)	20.5°	320 x 256 (Pixel Pitch : 25μm)	17.1°	320 x 256 (Pixel Pitch : 20μm)	13.7°
	H	H9.60mm x V7.68mm	16.0°	H8.00mm x V6.40mm	13.4°	H6.40mm x V5.12mm	10.7°
	V		12.9°		10.7°		8.6°

M5018-SW



Focal Length	50mm	
Max. Aperture Ratio	1:1.8	
Max. Image Circle	φ 12.3mm	
Operation Range	Iris F1.8 - F16C	
Focus	0.6m - Inf.	
Control	Iris Manual	
Focus	Manual	
Object Dimension at M.O.D.	10.4(H)cm x 7.8(V)cm 2/3"	
D	13.0°	9.5°
Angle of View	H 2/3" 10.4° 1/2" 7.6°	
V	7.8°	5.7°
Operating Temperature	-10°C ~ +50°C	



Distortion	2/3" -0.3% (y=5.5)	1/2" -0.1% (y=4.0)
Back Focal Length	13.6mm	
Flange Back Length	17.526mm	
Mount	C-Mount	
Filter Size	M30.5 P=0.5mm	
Dimensions	φ 33.5mm x 38.2mm	
Weight	85g	

Angle of View (InGaAs Detector)	D	640 x 512 (Pixel Pitch : 15μm)	14.5°	320 x 256 (Pixel Pitch : 25μm)	12.1°	320 x 256 (Pixel Pitch : 20μm)	9.7°
	H	H9.60mm x V7.68mm	11.3°	H8.00mm x V6.40mm	9.5°	H6.40mm x V5.12mm	7.6°
	V		9.1°		7.6°		6.1°