



**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	0.3m - Inf.	-0.8% (y=5.5)	87g	
M5018-VSW		50mm	F1.8	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"

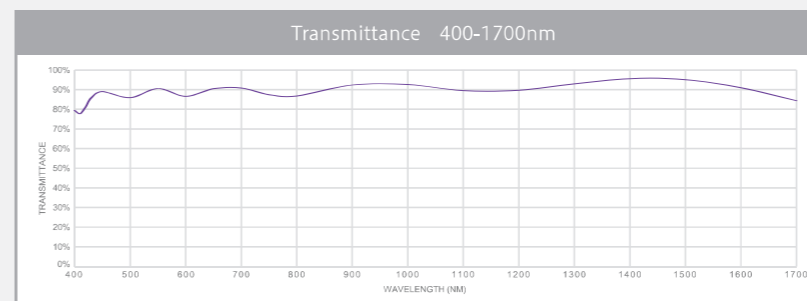
Visible  
+SWIR

MANUAL

2/3"

Visible  
+SWIR

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			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.			0.3m - Inf.											
Control	Iris	Manual			Manual			Manual			Manual			Manual											
	Focus	Manual			Manual			Manual			Manual			Manual											
Angle of View	D	IMX990	77.8°	IMX991	44.6°		76.7°	IMX990	53.0°	IMX991	27.9°		67.1°	IMX990	37.8°	IMX991	19.4°		49.2°	IMX990	28.8°	IMX991	14.6°		38.0°
	H	6.40mm × 5.12mm	65.5°	3.20mm × 2.56mm	35.3°	1/2"	65.5°	6.40mm × 5.12mm	42.5°	3.20mm × 2.56mm	21.9°	2/3"	56.3°	6.40mm × 5.12mm	30.0°	3.20mm × 2.56mm	15.2°	2/3"	40.4°	6.40mm × 5.12mm	22.7°	3.20mm × 2.56mm	11.4°	2/3"	30.8°
	V	5.12mm	54.5°	2.56mm	28.5°		51.4°	5.12mm	34.5°	2.56mm	17.6°		43.7°	5.12mm	24.1°	2.56mm	12.2°		30.8°	5.12mm	18.2°	2.56mm	9.2°		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			F1.4 - F16C			F1.4 - F16C			F1.8 - F16C															
	Focus	0.3m - Inf.			0.3m - Inf.			0.3m - Inf.			0.5m - Inf.															
Control	Iris	Manual			Manual			Manual			Manual															
	Focus	Manual			Manual			Manual			Manual															
Angle of View	D	IMX990	18.6°	IMX991	9.4°		24.9°	IMX990	13.7°	IMX991	6.9°		17.3°	IMX990	9.8°	IMX991	4.9°		13.1°	IMX990	6.40mm × 5.12mm	14.6°	3.20mm × 2.56mm	7.3°	2/3"	20.0°
	H	6.40mm × 5.12mm	14.6°	3.20mm × 2.56mm	7.3°	2/3"	20.0°	6.40mm × 5.12mm	10.7°	3.20mm × 2.56mm	5.4°	2/3"	13.9°	6.40mm × 5.12mm	7.6°	3.20mm × 2.56mm	3.8°	2/3"	10.5°	6.40mm × 5.12mm	6.1°	3.20mm × 2.56mm	3.1°	2/3"	7.9°	
	V	5.12mm	11.7°	2.56mm	5.9°		15.1°	5.12mm	8.6°	2.56mm	4.3°		10.4°	5.12mm	6.1°	2.56mm	3.1°		7.9°	5.12mm	6.1°	2.56mm	3.1°		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			