



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				Iris F1.8 - F16.0				Iris F1.8 - F16.0				Iris F1.8 - F16.0											
	Focus 0.1m - Inf.				Focus 0.1m - Inf.				Focus 0.1m - Inf.				Focus 0.1m - Inf.											
Control	Iris Manual				Iris Manual				Iris Manual				Iris Manual											
	Focus Manual				Focus Manual				Focus Manual				Focus 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 × 4.27°	3.20mm × 2.21°	2/3"	56.4°	6.40mm × 3.00°	3.20mm × 1.52°	2/3"	40.4°	6.40mm × 2.27°	3.20mm × 1.14°	2/3"	30.9°	6.40mm × 2.27°	3.20mm × 1.14°	2/3"	30.9°	6.40mm × 1.46°	3.20mm × 0.73°	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°		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%	2/3"	0.0%	1/2"	-0.1%	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

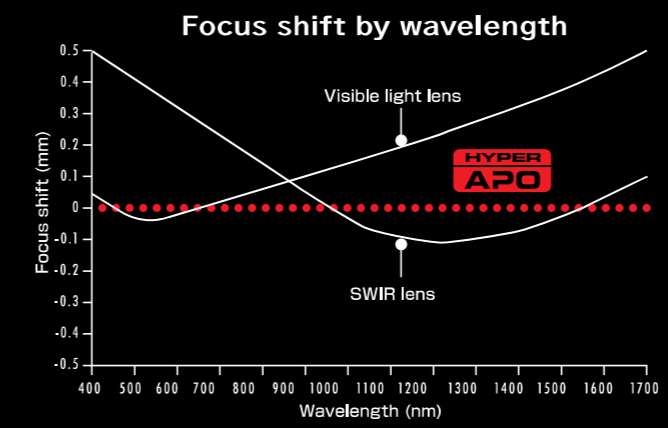
VISWIR

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



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

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