

inspect
award 2022
winner
1.
Category
Vision

inspect
award 2022
Best Product
Award



VisionSystems
2021
**Innovators
Awards**
GOLD HONOREE

VisionSystems
Innovators
Awards
2021
Gold Award

Hyper Apo series

VISWIR

**HYPER
APO**

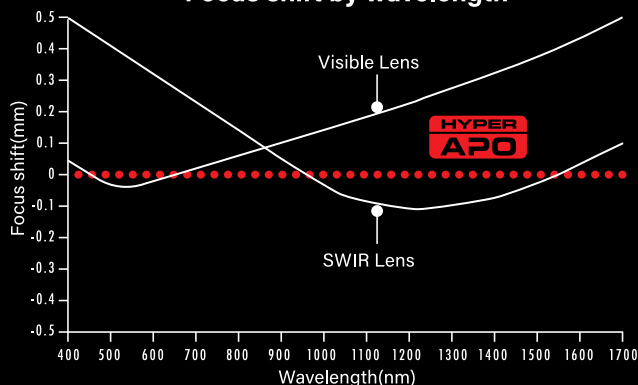


Compatible with the latest InGaAs sensor cameras

Pixel size 3.45 μm . Compatible with the new SWIR image sensors IMX992/IMX993.

- High resolution optics designed for IMX992/IMX993 (Sony Semiconductor Solutions).
- Chromatic aberration corrected at the wide wavelength range from 400nm to 1700nm.
- Ideal for hyperspectral and multispectral imaging.
- ViSWIR light-absorbing film prevents harmful light scattering and achieves clear image quality.

Focus shift by wavelength



Ultra-high resolution from 400 nm visible light to 1700 nm near infrared with no focus shift.



Lite series
VISWIR
Lite

- ▶ High transmittance from 400 nm visible light to 1700 nm near infrared.
- ▶ Cost-effective model available for customers using single wavelengths.
- ▶ Clear image by ViSWIR light-absorbing film.

Wide variety of selection

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

ViSWIR Series

Hyper-APO series

M0818-APVSW 2			
Focal Length	8mm		
F-Number	F1.8 - F16		
Working Distance	0.1m - Inf		
Angle of View (IMX992)	56.6° x 46.7° (Diagonal 68.7°)	Angle of View (IMX990)	42.7° x 34.7° (Diagonal 53.2°)
Angle of View (IMX993)	46.7° x 35.8° (Diagonal 56.6°)	Angle of View (IMX991)	22.1° x 17.7° (Diagonal 28.1°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M46 P=0.75mm		
Dimensions	φ 49mm x 54.7mm		
Weight	171g		

M1218-APVSW 2			
Focal Length	12mm		
F-Number	F1.8 - F16		
Working Distance	0.1m - Inf		
Angle of View (IMX992)	40.5° x 32.9° (Diagonal 50.4°)	Angle of View (IMX990)	30.0° x 24.2° (Diagonal 37.9°)
Angle of View (IMX993)	32.9° x 25.0° (Diagonal 40.5°)	Angle of View (IMX991)	15.2° x 12.2° (Diagonal 19.5°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M37.5 P=0.5mm		
Dimensions	φ 39.5mm x 52.0mm		
Weight	163g		

M1618-APVSW 2			
Focal Length	16mm		
F-Number	F1.8 - F16		
Working Distance	0.1m - Inf		
Angle of View (IMX992)	31.0° x 25.0° (Diagonal 38.9°)	Angle of View (IMX990)	22.7° x 18.2° (Diagonal 28.8°)
Angle of View (IMX993)	25.0° x 18.9° (Diagonal 31.0°)	Angle of View (IMX991)	11.4° x 9.2° (Diagonal 14.6°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M37.5 P=0.5mm		
Dimensions	φ 39.5mm x 51.3mm		
Weight	170g		

M2518-APVSW 2			
Focal Length	25mm		
F-Number	F1.8 - F16		
Working Distance	0.1m - Inf		
Angle of View (IMX992)	20.0° x 16.1° (Diagonal 25.5°)	Angle of View (IMX990)	14.6° x 11.7° (Diagonal 18.6°)
Angle of View (IMX993)	16.1° x 12.1° (Diagonal 20.0°)	Angle of View (IMX991)	7.3° x 5.9° (Diagonal 9.4°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M37.5 P=0.5mm		
Dimensions	φ 39.5mm x 59.2mm		
Weight	159g		

M3518-APVSW			
Focal Length	35mm		
F-Number	F1.8 - F16		
Working Distance	0.15m - Inf		
Angle of View (IMX992)	14.4° x 11.6° (Diagonal 18.4°)	Angle of View (IMX990)	10.5° x 8.4° (Diagonal 13.4°)
Angle of View (IMX993)	11.6° x 8.7° (Diagonal 14.4°)	Angle of View (IMX991)	5.3° x 4.2° (Diagonal 6.8°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M37.5 P=0.5mm		
Dimensions	φ 39.7mm x 74.3mm		
Weight	199g		

M5018-APVSW			
Focal Length	50mm		
F-Number	F1.8 - F16		
Working Distance	0.2m - Inf		
Angle of View (IMX992)	10.2° x 8.2° (Diagonal 12.8°)	Angle of View (IMX990)	7.4° x 5.9° (Diagonal 9.5°)
Angle of View (IMX993)	8.1° x 6.1° (Diagonal 10.1°)	Angle of View (IMX991)	3.7° x 3.0° (Diagonal 4.7°)
Wavelength Range	400-1700nm		
Mount	C		
Sensor Size	1/1.4"		
Resolution	5MP		
Filter Size	M37.5 P=0.5mm		
Dimensions	φ 40.5mm x 72mm		
Weight	174g		

Lite series

H0514-VSW	
Focal Length	5mm
F-Number	F1.4 - F16C
Working Distance	0.1m - 0.9m
Angle of View (IMX990)	65.5° x 54.5° (Diagonal 77.8°)
Angle of View (IMX991)	35.3° x 28.5° (Diagonal 44.6°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	1/2"
Resolution	1.5MP
Filter Size	M43 P=0.75mm
Dimensions	φ 44.5mm x 45.5mm
Weight	102g

M0814-VSW	
Focal Length	8mm
F-Number	F1.4 - F16C
Working Distance	0.1m - Inf
Angle of View (IMX990)	42.5° x 34.5° (Diagonal 53.0°)
Angle of View (IMX991)	21.9° x 17.6° (Diagonal 27.9°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 28.2mm
Weight	63g

M1214-VSW	
Focal Length	12mm
F-Number	F1.4 - F16C
Working Distance	0.15m - Inf
Angle of View (IMX990)	30.0° x 24.1° (Diagonal 37.8°)
Angle of View (IMX991)	15.2° x 12.2° (Diagonal 19.4°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 28.2mm
Weight	62g

M1614-VSW	
Focal Length	16mm
F-Number	F1.4 - F16C
Working Distance	0.3m - Inf
Angle of View (IMX990)	22.7° x 18.2° (Diagonal 28.8°)
Angle of View (IMX991)	11.4° x 9.2° (Diagonal 14.6°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 28.2mm
Weight	60g

M2514-VSW	
Focal Length	25mm
F-Number	F1.4 - F16C
Working Distance	0.3m - Inf
Angle of View (IMX990)	14.6° x 11.7° (Diagonal 18.6°)
Angle of View (IMX991)	7.3° x 5.9° (Diagonal 9.4°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 36mm
Weight	72g

M3514-VSW	
Focal Length	35mm
F-Number	F1.4 - F16C
Working Distance	0.3m - Inf
Angle of View (IMX990)	10.7° x 8.6° (Diagonal 13.7°)
Angle of View (IMX991)	5.4° x 4.3° (Diagonal 6.9°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 38.2mm
Weight	87g

M5018-VSW	
Focal Length	50mm
F-Number	F1.8 - F16C
Working Distance	0.5m - Inf
Angle of View (IMX990)	7.6° x 6.1° (Diagonal 9.8°)
Angle of View (IMX991)	3.8° x 3.1° (Diagonal 4.9°)
Transmittance Wavelength Range	400-1700nm
Mount	C
Sensor Size	2/3"
Resolution	1.5MP
Filter Size	M30.5 P=0.5mm
Dimensions	φ 33.5mm x 38.2mm
Weight	85g

This specification is subject to change without any notice.