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2/3",12mm,F1.8,C-mount,ViSWIR Broadband



Computar ViSWIR Corrected HYPER-APO Lenses

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General

Model Number:
M1218-APVSW2

Imaging Lens Type:
Broadband Fixed Focal Length SWIR Lens

Physical & Mechanical Properties

Iris Option:
Manual Iris

Length (mm):
52.00

39.0 **Maximum Diameter (mm):**

39.5 **Outer Diameter (mm):**

133.0 **Weight (g):**

5.30 **Maximum Rear Protrusion (mm):**

52.0 **Maximum Length (mm):**

Optical Properties

40.4° **Horizontal Field of View @ Max Sensor Format:**

40.5° (H8.83) **Horizontal Field of View, 2/3" Sensor:**

32.9 **Horizontal Field of View, 1/1.8" Sensor:**

30.0° (H6.4) **Horizontal Field of View, 1/2" Sensor:**

15.2° (H3.2) **Horizontal Field of View, 1/4" Sensor:**

11.40 **Maximum Image Circle (mm):**

400 - 1700 **Wavelength Range (nm):**

12.00 **Focal Length FL (mm):**

100 - ∞ **Working Distance (mm):**

FOV @ Max Sensor Format, H x V (mm):
Horizontal: 40.4°
Vertical: 30.9°
Diagonal: 49.3°

f/1.8 **Aperture (f/#):**

12.5 **Back Focal Length BFL (mm):**

22.57 **Entrance Pupil Position (mm):**

32.50 **Object Space Principal Plane (mm):**

12.00 **Image Space Principal Plane (mm):**

0.00 **Maximum Distortion (%):**

-69.693 **Exit Pupil Position (mm):**

VIS-SWIR **Lens Wavelength Range:**

VIS, SWIR **Wavelength:**

Sensor

2/3" **Optimized Sensor Format:**

2/3" **Maximum Sensor Format:**

Threading & Mounting

M37.5 x 0.5 **Filter Thread:**

C-Mount **Mount:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

United States **Country of Origin:**

Edmund Optics India Private Limited **Imported By:**

Product Details

- Fully Corrected Focus Shift Between VIS and SWIR
- 1/2" or 2/3", C-Mount
- Focal Lengths Ranging from 8 - 50mm
- Vibration Resistance Up to 5G

Computar VISWIR Corrected HYPER-APO Lenses offer fully corrected focus shift across the visible and SWIR range, from 400nm to 1,700nm. By using ultra-low dispersion and low partial dispersion glass, focus shift is minimized to just a few microns across a wide wavelength range. By syncing illumination sources, this ensures spectral imaging is achievable with a single sensor camera. Computar VISWIR Corrected HYPER-APO Lenses feature an APO floating design that reduces focus shift at any wavelength and working distance. These lenses are ideal for applications in factory automation, UAV, agricultural, and remote sensing.

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