- OPTICAL SYSTEMS

For pricing and additional information, please contact us at (951) 926-2994 or email us at opticalsystems.sales@ii-vi.com

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MWIR F/2.0 FIXED FOCUS OBJECTIVES

mid-wave infrared (Athermal)

KEY FEATURES

F-number: F/2.0 Wavelength: 3-5 µm Athermalized Narrow to Wide Field-Of-View Optimized for 1280x1024 - 12/15 µm FPA Image Diagonal: 24.5 mm Manual fine focus adjustment Exterior AR Hard Coating (Optional)



II-VI Optical Systems (II-VI OS) offers a series of F/2.0 mid-wave infrared (MWIR) fixed focus radiometric objectives in the 3-5 µm spectral region. These MWIR objectives are designed to provide diffraction limited performance with low distortion, low stray light and high MTF performance. A wide range of standard fields of view are provided for various applications.

II-VI Optical Systems also provides customized MWIR objectives engineered and built to customer requirements. Optional camera integrations are available upon request.



Lens pictured is the OWL-IR MWIR 100mm, F/2.0 fixed focus objective.

OBJECTIVE SPECIFICATION

MM	MM 1!	1	75 MM	50 MM	25 MM	FOCAL LENGTH(S) AVAILABLE
ım	m 3-	3-	3-5 µm	3-5 µm	3-5 µm	Wavelength
	2.	2.	2.0	2.0	2.0	F Number
mm	mm 24	24	24.5 mm	24.5 mm	24.5 mm	Image Diagonal (Max.)
	9.	14	18.6°	27.6°	52.4°	Full Field-of-View (FFOV)*
)	>	>	> 0.5	> 0.5	> 0.5	MTF @ 42 lp/mm (On-Axis, Nominal)
to ∞	o∞ 3	3	0.5 m to ∞	0.5 m to ∞	0.5 m to ∞	Focus Range
nm Ge	nm Ge 1.	1.	1.0 mm Ge	1.0 mm Ge	1.0 mm Ge	Dewar Window (Nominal)
mm	mm 12	12	12.7 mm	12.7 mm	12.7 mm	Cold Stop Aperture
mm	mm 25	2	25.4 mm	25.4 mm	25.4 mm	Cold Stop to FPA
mm	mm 39	39	39.4 mm	39.4 mm	39.4 mm	Flange to FPA
o +60 °C	o +60 °C -4	°C -4	-40 to +60 °	-40 to +60 °C	-40 to +60 °C	Athermal (Passive)
/HCC	′НСС Н	Н	HDL/HCC	HDL/HCC	HDL/HCC	External Coating **
	82	82	>82%	>85%	>85%	Transmission (Ave.)
	́НСС Н	Н	HDL/HCC	HDL/HCC	HDL/HCC	External Coating **



* FFOV based on 24.5mm image diagonal FPA size. ** HDC = High Durable Coating; HCC = Hard Carbon Coating ; Coatings shall meet the quality requirements of MIL-C-675, MIL-STD-810, MIL-F-48616, and MIL-C-48497 where applicable.