



MOTORIZED ZOOM LENS MWIR F/4 38-550MM (14.5X)

Mid-Wave Infrared (Athermal)

II-VI Aerospace & Defense (II-VI A&D) offers its first motorized high definition zoom lens with continuous or discrete zoom positioning. The MWIR Zoom Lens is designed to provide excellent optical performance with low distortion, low stray light, excellent MTF performance as well as low boresight drift thru zoom and good boresight retention. This zoom lens is designed to work optimally with 1280x1024 12 μ m HD FPA format.

II-VI Aerospace & Defense also provides customized MWIR motorized zoom lenses engineered and built to customer requirements. Optional camera integration is available upon request.

MWIR



MWIR F/4 38-550MM (14.5X)

OBJECTIVE SPECIFICATIONS

FOCAL LENGTH	38 - 550 mm (14.5X)
Wavelength	3.4 - 5.0 μ m
F Number	F/4
FPA Format	1280 x 1024 – 12 μ m ; 1280 x 1024 – 15 mm; 1920 x 1536 - 10 μ m
Optical MTF (Nominal)	On Axis >0.25 @ 25 lp/mm ; HFOV >0.20 @ 25 lp/mm
CS to F.P. Distance	28.15 mm
Operating Temperature	-40°C to +70°C
Distortion (WFOV/NFOV)	<4% / <1%
Focus Range (WFOV/NFOV)	3 m/150 m - ∞
Through Zoom Boresight	Within 0.02 mm radius
Boresight Retention (NFOV)	< 0.01 mm
Focus/Zoom Mechanism	Motorized (Continuous/Discrete)
Mechanical Interface	Bolt-on Mounting Holes/Zoom Lens Stand (Optional)
Weight/Dimension	12.2 lbs. / 12" x ϕ 7"
Power Input	24-28 VDC, 0.25 A (Nominal), 1 A Max.
Communication Protocol	RS-422, BR 19,200,n,8,1; USB (VCP), BR 115,200,n,8,1

KEY FEATURES

- I F/4 38-550 mm (14.5X)
- I Wavelength: 3.4 - 5.0 μ m
- I Motorized (continuous/discrete)
- I Athermalized
- I 26.1 mm Image Diagonal (max.)
- I HDC or HCC External Coating*



* HDC = High Durable Coating; HCC = Hard Carbon Coating ; Coatings shall meet the quality requirements of MIL-C-675, MIL-STD-810, MIL-M-13508, MIL-F-48616, and MIL-C-48497 where applicable. OWL-IR and OWL-IRz are Trademarks of II-VI Inc.