

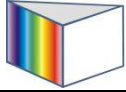
100mm/F2.0 manual for MWIR

The lens **module 100mmF2.0 manual** is designed for cooled detector (InSb FPA Focal Plane Arrays) of 640x512-15 μ m of MWIR wavelength range 3.5~5.0 μ m, it is optimized optically for high transmission, good MTF and low distortion. The sealing of the housing is IP54, it is weight less than 700grams. The improvements and changes of the design is available for customer's special request.

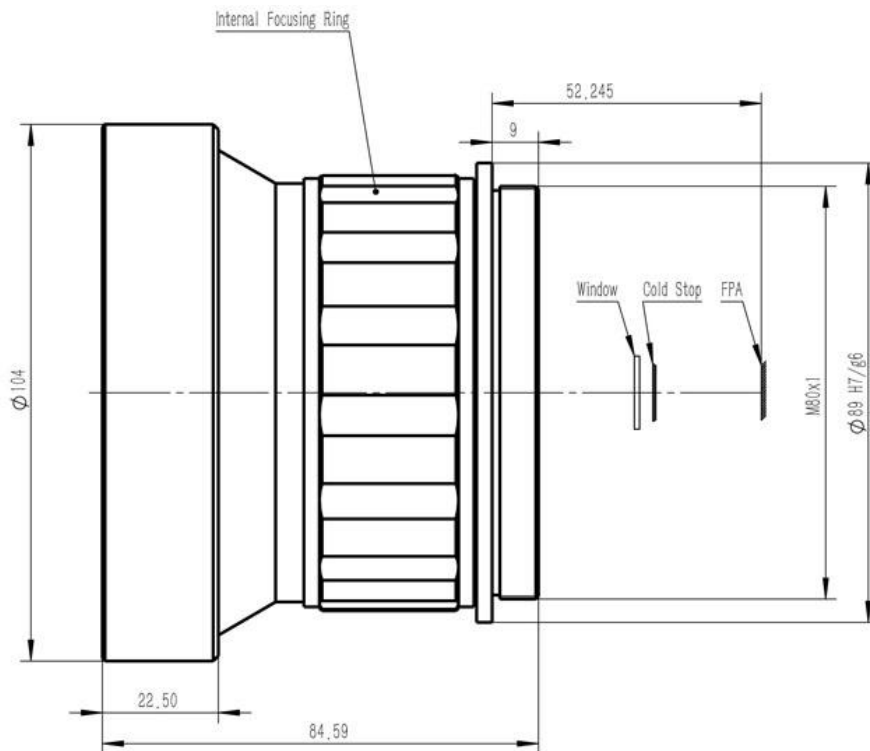


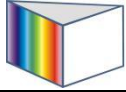
SPECIFICATIONS

Optical Parameters	
EFL	100mm
f Number (f#)	2.0
Wavelength range	3.5~5micro
Detectors	640x512-15um, cooled
FOV	5.5°x4.4° (7.04°)
External Coating	DLC or AR
Average transmission	>86% for DLC external coating >90% for AR external coating
Working temperature	-40°C ~ +60°C
BFL	48.55mm
Minium Working Distance	5mm
Distortion	Maxium D-FOV distortion <1%



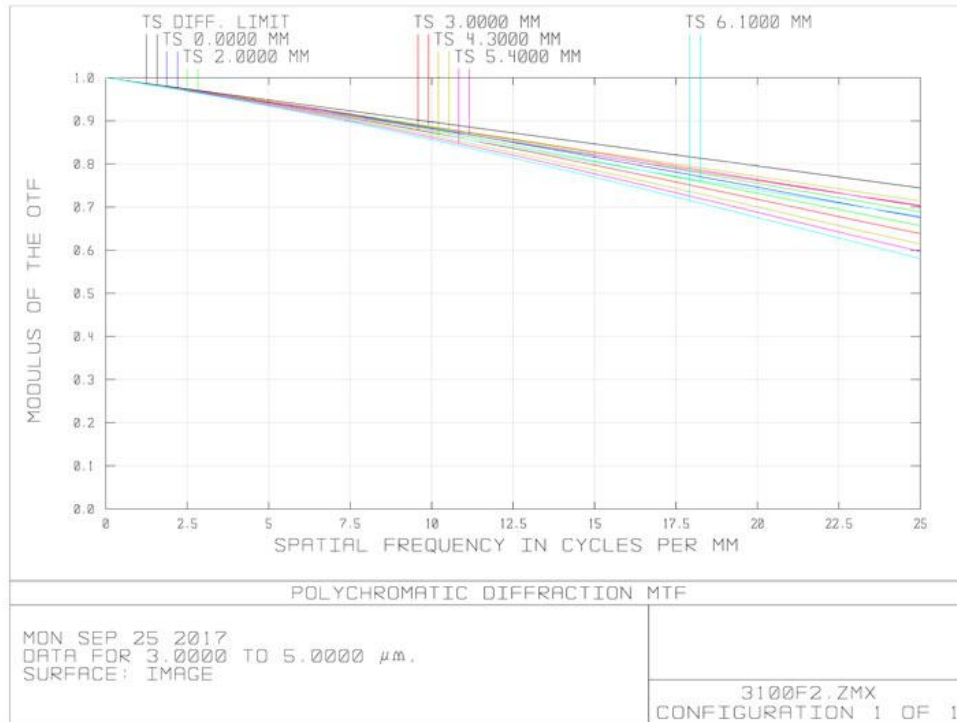
Mechanical Parameters	
Dimensions	Length:84.59mm x Diameter 104mm
Focus Mechanism	Internal Manual Focusing
Sealing	IP54
Mount	M80x1-6g; Back Flange Distance: 52.245
Housing material	Aluminum, black anodized
Working Temperature	-40°C ~ +60°C
Storage Temperature	-50°C ~ +70°C
Weight	<700gram



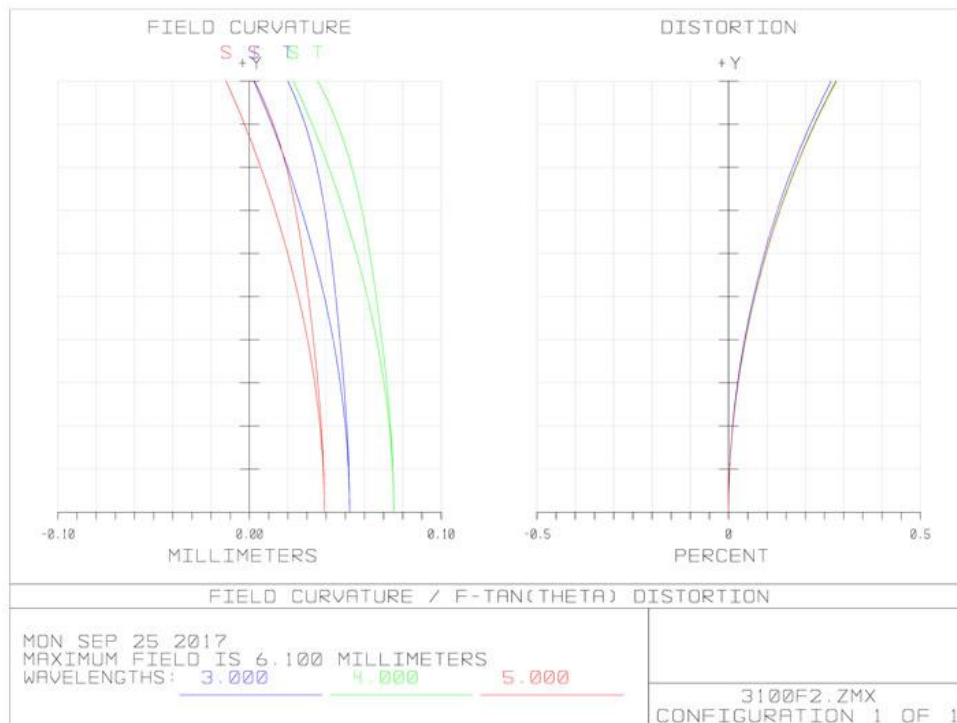


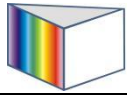
3. Mechanical Parameters

3.1 MTF@25lp/mm

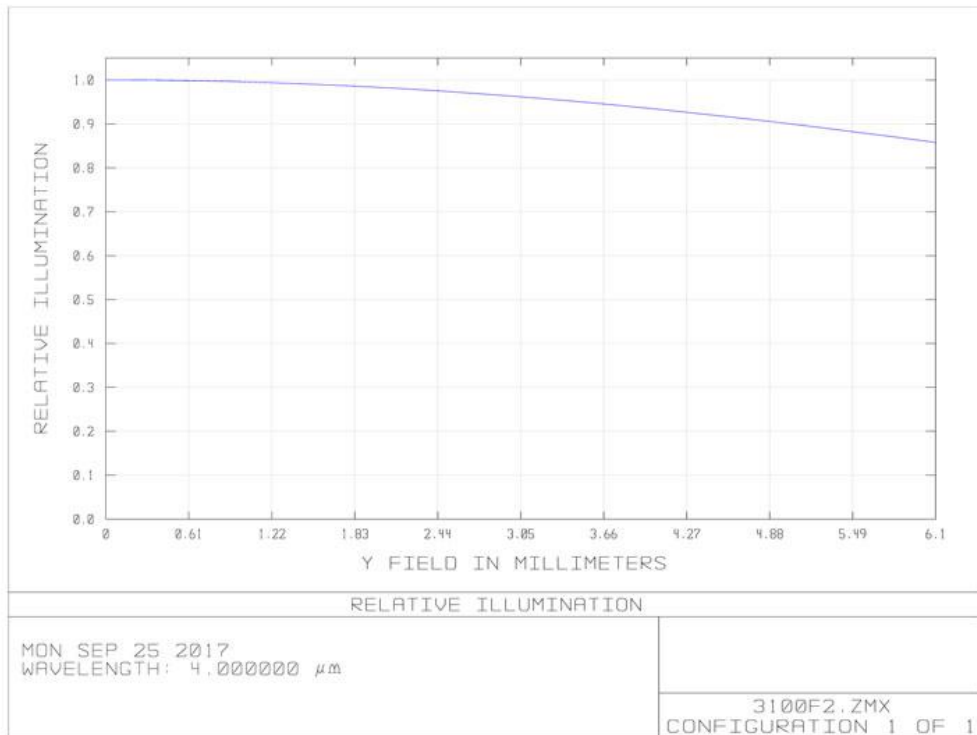


3.2 Field Curv and Distortion





3.3 Relative Illumination



3.4 Vignetting

