

MWIR mono-focal for HD detectors – commercial off the shelf lens

# 300BB

MWIR 300 mm F/3.0 mono-focal  
Lens for High Definition detectors



## FEATURES / APPLICATIONS / CAPABILITIES

- Super High performances lens
- Supports also HD F/4 detectors

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
<b>Focal Length / F#</b>		<b>300mm F/3.0</b>	Nominal values. Supports also F/4 detectors. Cold stop height at 28.0 mm – nominal value.
<b>Detector (FPA) type / size</b>		1,920 x 1,536 x 10 microns 1,280 x 1,024 x 15 microns	
<b>FOV (degrees)</b>		3.67°(H) x 2.93° (V) 1.83°(H) x 1.47° (V)	For detector size of 1,920 x 1,536 x 10 μ and detector size of 1,280 x 1,024 x 15μ
Optical Coatings			
	<b>All internal surfaces</b>	High efficiency AR coating	Average transmission: 92%
	<b>Front surface</b>	High durability AR coating	DLC is available upon request
<b>Optical Total lens track</b>		250 mm	Preliminary value
<b>Optical Back Focal Length</b>		Approx 16 mm	
MECHANICAL			
<b>Mechanical Back Focal Length</b>		TBD	
<b>Focus mechanism</b>		Motorized	
<b>LOS shift during focusing</b>		0.05 mm on PFA	Typical value
<b>Focus indication position</b>		Included	Thru encoder of motor and opto-switch.
<b>Total Weight</b>		~ 1500 grams	Preliminary Value
<b>Structure</b>		Open frame	
<b>External Dimensions</b>		124mm diameter x 225mm Length	
ELECTRICAL			
<b>Power Input</b>		12VDC, 0.5 A	Nominal
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Default is RS422; Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
<b>Operating/Storage Temperature</b>		-20°C to +50°C / -30°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	

