

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

## 300BB-BLM

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



### Features:

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

Optical	
Focal Length / F#	300mm F/3.0
Detector (FPA) type / size	1,920 x 1,536 x 10 microns 1,280 x 1,024 x 15 microns
FOV (degrees)	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 Coating - All internal surfaces	High efficiency AR coating / Average transmission: 92%
Optical Coating - Front surface	Hi durability (HD) AR coating / DLC coating is optional on request
Optical Total lens track	250 mm Preliminary value
Optical Back Focal Length	Approx 16 mm
Mechanical	
Mechanical Back Focal Length	TBD
Focus mechanism	Motorized
LOS shift during focusing	0.05 mm on PFA - Typical value
Focus indication position	Included - Thru encoder of motor and opto-switch
Thru zoom boresight	Better than 0.15 mm
NFOV boresight retention	Better than 0.045 mm
Structure	Open frame
Total Weight	~ 1500 grams
Ext. Dimensions ø x length (mm)	124mm diameter x 225mm Length
Electrical	
Power Input	12VDC, 0.5A
Communication Protocol	RS-422/232 Full Duplex - Default is RS422; Baud rate 19,200, n, 8, 1
Environmental	
Operating Temperature	-20°C to +50°C
Storage Temperature	-30°C to +70°C
Shock and Vibrations	Per applicable standard
Front lens sealing	IP67 by request

\*IFOV is indicated in mrad

\*\*All values are nominal: to within ±5%