

LWIR Dual/Triple FOV – commercial off the shelf lens

# GALIL

33/99 mm LWIR Dual FOV  
Lens with DSP controller



## FEATURES / APPLICATIONS / CAPABILITIES

- Supports multiple detectors type: 384 x 288 x 25 $\mu$  pitch / 640 x 480 x 17 $\mu$  pitch / 640 x 480 x 25 $\mu$  pitch / 1024 x 768 pixels x 17 $\mu$
- Excellent performance over entire FOV with ultra-fast changing mechanism

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
<b>Focal Length / F#</b>		33/99 mm F/1.25	Nominal values.
<b>Detector (FPA) type / size</b>		1024x768 pixels x17 $\mu$ or smaller	Max FPA area: 16 x 12 mm ( <b>20 mm diagonal</b> )
<b>FOV (degrees)</b>		Wide: 27.25°(H) x 22.0° (V) Narrow: 9.25° (H) x 7.4° (V)	For detector size of 640 x 512 pixels x 25 $\mu$
		Wide: 18.7°(H) x 14.1° (V) Narrow: 6.3° (H) x 4.7° (V)	For detector size of 640 x 480 pixels x 17 $\mu$
		Wide: 30.1°(H) x 22.6° (V) Narrow: 10° (H) x 7.5° (V)	For detector size of 1024 x 768 pixels x 17 $\mu$
<b>Optical Coatings</b>			
	<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>		116 mm	Nominal
<b>Optical Back lens track</b>		20.11 mm	Nominal
MECHANICAL			
<b>Mechanical Back Focal Length</b>		11-14 mm	Request MICD for details
<b>Zoom mechanism/ Focus</b>		Motorized	With single motor
<b>Total Weight</b>		725 grams	Nominal, excluding adaptor for camera
<b>External Dimensions</b>		Max Diameter: 122 mm; Length: 106 mm (excluding motor)	
ELECTRICAL			
<b>Power Input</b>		12VDC, 1.0A	Fast switching time model: 12VDC, 3.0A
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
<b>Operating/Storage Temperature</b>		-30°C to +60°C / -40°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	

