-- LWIR Dual/Triple FOV Lens

LWIR 45/135 mm ruggedized Dual FOV



## **Technical Specification**

OAK

Thermal system

OAK is a long wave uncooled thermal imager offering effective surveillance solutions delivered in a compact package and it is equipped with a high resolution, VOx microbolometer, 640x480 pixels, 17 µm pitch focal plane array.

Operating in the 8-14 $\mu$ m spectral region OAK provides superior thermal images through smoke, aerosols, and other atmospheric obscurants.

The rugged enclosure is backfilled with dry nitrogen and environmentally sealed, eliminating the need for additional enclosures.

The RS-232/422 remote control capability permits ease of integration into any client-based security system.

RP Optical Lab provides leading-edge IR equipment to the security and surveillance sector. RP's proprietary optical designs, state-of-the-art laboratories, ensure maximum performance and dependability.

## SYSTEM MAIN FEATURES:

- Motorized focus/zoom
- Auto & Manual focus
- Internal shutter or Optical NUC
- Remote control Capability
- Digital output Camera link
- Dry Nitrogen Backfilled
- Ruggedized construction



## SYSTEM SPECIFICATIONS

STOTEM	SPECIFICATIONS					
PARAMETER		VALUE	NO	NOTES		
🙍 SYST	EM					
Video Format		NTSC or PAL				
Communication Protocol		RS-422 Full Duplex	Baud rate 19,200 (other rates available)			
Power Requirements		12VDC, 1.0A	Average nominal power			
ENVIRO	NMENTAL			-		
Operating / Storage Temp		-30°C to +50°C / -40°C to +70°C				
Shock and Vibrations		Per MIL-STD-810E				
Sealing		As per IP65	IP66/IP67 available on request			
Controls		Fully Remote controlled		_		
Electronic Zoom		X2 / X4				
Focus control		Manual / Automatic				
Total Weight		2.6 Kg	Nominal			
External Dimensions		Max Diameter: 96 mm; Length: 123 mm (Please refer to MICD for details)				
Mount / Mechanical Interface		Please refer to Mechanical ICD	Customized interfacing, available on			
			request			
SENS	SOR					
Detector FPA		640 x 480 pixels, 17 μm pitch		384 x 288 pixels, 25 µm pitch is availabl		
			on request			
Sensitivity		< 70mK	Please consult for better sensitivity			
OPTICAL			W ORDERING INFORMATION			
Focal Length, F#		45 /135 mm, F/ 1.1 & F/1.55 respectively	OAK-X-Y			
Working Spectral Range		8 -14 µ	"X" - Video Output			
FOV	For 640 x 480, 17µm	Wide: 13.8°(H) x 10.4° (V)		Р	PAL	
(Degree)	pitch	Narrow:4.6°(H) x 3.4° (V)		N	NTSC	
	For 384x 288, 25 µm	Wide: 12.2°(H) x 9.2° (V)	"Y"		era resolution	
	pitch	Narrow:4.1°(H) x 3.1° (V)				
Optical NUC		Available and supported by system SW as well as remote control.		640	640x480, 17 μm sensor	
Focus / Zoom mechanism		Motorized, remotely controlled		384	384x288, 25 µm sensor	
Focus / Zo						

