--- LWIR Single FOV Lens

LWIR Ruggedized Thermal system With 19A /35A / 50A / 75A / 100A / 75 / 130 mm / 210mm lens



Technical Specification

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

Operating in the 8-14µm spectral region TULIP provides superior thermal images through smoke, aerosols, and other atmospheric obscurants at long distances.

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 or A-thermalized lenses configuration
- Auto & Manual focus
- Internal shutter NUC
- Remote control Capability
- Digital output Camera link
- Dry Nitrogen Backfilled
- Ruggedized construction



SYSTE	M SPECIFICATI	IONS										
PARAMETER			VALUE				NOTES					
Ø SYS	STEM											
Video Format			NTSC or PAL									
Communication Protocol			RS-422/232 Full Duplex				A-thermal systems: RS232					
Power Requirements			14 - 32 VDC, 1.0A regulated				Average nominal power					
ENVIRONMENTAL												
Operating / Storage Temp			-32°C to +55°C / -40°C to +70°C									
Shock and Vibrations			Per MIL-STD-810E/F									
Sealing			As per IP65				IP66/IP67 available on request					
Controls			Fully Remote controlled				A-thermal lenses do not include motors.					
Electronic Zoom			X2 / X4									
Focus control			Manual / Automatic				A-thermal lenses: no focus is required.					
3 SEI	NSOR											
Detector FPA			640 x 480 pixels, 17 μm pitch (384 x 288 pixels, 25 μm pitch available on request)				See ordering information below					
Sensitivity			< 50mK				32n	32mK sensitivity is available on request (H)				
OPT	TCAL											
Focal Length / F#		19F/0.9 A-thermal	35F/1.2 A-thermal	50F/1.4 A-thermal	75F/1.4 A-thermal	100F	-	75F/1.2 Motorized	130F/1.2 Motorized	150F/1.4 Motorized	210F/1.5 Motorize	
FOV (HxV)	640x480 x 17µ	32° x 26°	17.8x13°	12.4x9.3°	8.3 x 6.2°	6.2 x	4.7°	8.3 x 6.2°	4.8 x 3.6°	4.2 x 3.1°	3.0 x 2.2	
	384x288 x 25µ	28x21.5°	15.7x12°	11x8.3°	7.3 x 5.5°	5.5 x 4.1°		7.3 x 5.5°	4.2 x 3.2°	3.7 x 2.8°	2.6 x 2.0	
Spectral range			8 - 14 μm									
Focus / Zoom		A-tl	thermal - No focus required					Motorized, remotely controlled				
NUC	·			Availa	able – by int	⊥ ternal s	shutte	er remotely of	controlled			
Focus Range		15m - ∞					m- ∞ 20m – ∞ 30m– ∞					
		No motor	r exist: focus is fixed at factory Mo				orized focus - controlled by user					
Total Weight			3.2 Kg (Nominal) 4.2 Kg (Nominal)									
External Dimensions			Approx.: 150mm (W) x 150mm (H) x 250mm L – consult RP for final dimensions.									
Mechani	ical Interface		Ple	ase refer to	MICD (Cus	stomize	ed int	erfacing, av	ailable on re	equest)		
w ORI	DERING INFOR	RMATION		T111.17		V 7	•	-				
	XX – Camera ∃	Γνης	V_ \/		P XXX –			Focallo	nath / E#			
640	640 x 480		Y – Video Format P PAL		ınal Z	19A		ns Focal Length / F# 19mm F/0.9 A-thermal				
384		·		NTSC		35A		35 mm F/1.2 A-thermal				
640H		384 x 288 x 25µm 640 x 480 x 17µm				50 A						
04011	32mK sensitivity					75	•		/1.2 A-therm	ıaı		
						75A		75 mm F/1.2 75 mm F/1.4 A-thermal				
						100						
						130		100 mm F/1.4 A-thermal				
						150		150 mm F/				
						210						
						210	'	210 mm F	71.5			

