



## Garm LW Pol

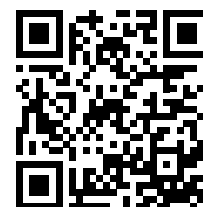
- QWIP technology
- 320x256 resolution
- Unique pixel-level polarization
- Excellent polarimetric contrast

## Description

The Garm LW Pol has a built-in 2x2 pixel array structure. With each pixel sensitive to a distinct polarization angle (0°, 45°, 90°, and -45°), it can sense the smallest polarimetric information within any scene without optical parallax or frame rate constraints. This unique detector allows real-time capture of polarimetric video and images with high polarimetric contrast and freedom from filter induced transmission losses.

## Applications

- Efficient oil spill detection
- Camouflage denial
- Improvised Explosive Device (IED) detection
- Human infrared face recognition
- Industrial applications (thermography, NDT...)
- And much more



## Garm LW Pol

### GENERAL INFORMATION

Application	Extended detection	
Technology	Polarimetric QWIP	
Format	320x256	
Pixel pitch	30 $\mu\text{m}$	

### TYPICAL DETECTOR PERFORMANCE

Spectral range	7.7 - 9.1 $\mu\text{m}$	
F number options	F/2	
NETD	20 mK	
Pixel operability	99.95%	
Maximum frame rate	120 Hz	Selectable frame rate supported

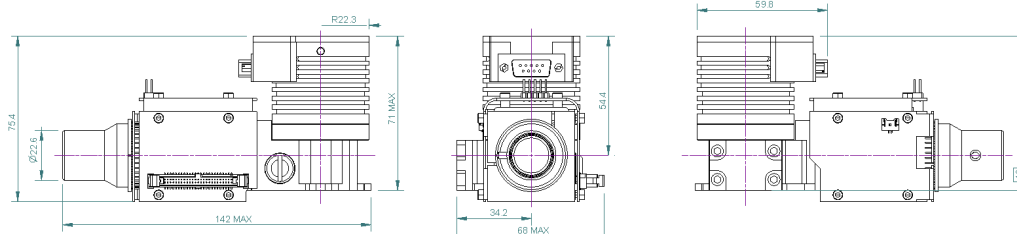
### PROXIMITY ELECTRONICS

Supply voltage	12 V	
Maximum frame rate	60 Hz	Selectable frame rate supported
Electrical interfaces	LVDS and I2C	Cooler control and proximity electronics included

### IDDCA PARAMETERS

Cooler options	FS R405K	RM3 or K508 options available
Power consumption	7 W / 12 W	Steady state / Cooldown
Cool down time	5 min	
Cooler voltage	12 V	24 V cooler options available
Weight and dimensions	550 g	71x57x142 mm
Cooler MTTF	10 000 h	
Environmental conditions	MIL-STD-810G	

Measurements in mm, for guidance purposes only.



Technical characteristics described above are not contractual and may change without prior notice. This is revision 1.0.