

MicroCAM™ irGO

Ultra Miniature Shock Resistant Thermal Imaging Camera

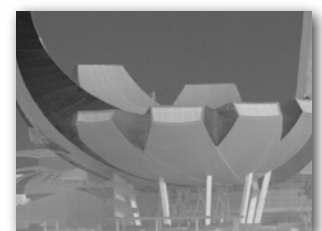


MicroCAM™ irGO Thermal Imaging Camera

MicroCAM™ irGO is a shock resistant, sealed and waterproof miniature thermal imaging camera designed for very low-powered cost-sensitive OEM applications such as UAV's, Unattended Ground Sensors and Helmet-Mounted scenarios. IrGO is an excellent high shock resistant night vision capability in a cylindrical package that can easily be integrated into your product or application.

Key Features of MicroCAM irGO Thermal Imaging Cameras:

- 384x288 or 640x480 17µm pitch MicroCAM 3
- 40° Field of View Lens
- High Shock Resistance
- IP67 Rated
- Waterproof Connector
- Dry Nitrogen Purged Housing
- -40°C to +70°C Operating Temperature Range Option
- Micro Power Consumption (<0.55W)
- Micro Weight (107g / 3.8oz)
- Micro Size (40Ø x 67mm / 1.57Ø x 2.64 inches)
- Shutterless (Patented XTi® Never Blind Technology)
- No Moving Parts
- Silent Operation





MicroCAM™ irGO

Specification	MicroCAM irGO 384 - 17µm	MicroCAM irGO 640 - 17µm
Sensitivity (f/1.0 no lens)	<50mK*	<50mK* (40mK* Option)
Spectral response**	LW Broadband >7µm	
Power consumption	<0.55 Watt	<0.75 Watt
Supply Voltage Range	2.5-15vDC input range	
Detector Material	Amorphous Silicon (ASi)	
Optics	40° Field of View Lens	
Array Size Options	384x288 (Optional 320x240)	640x480
Pixel Count	110,592	307,200
Pixel Pitch	17µm (384 x 288)	17µm (640 x 480)
TEC-Less operation	Yes	
Frame Rate	50/60 Hz (Optional 9Hz)	30Hz (Optional 9Hz)
Video Output	Composite PAL/NTSC (CCIR/RS170)	
Digital Zoom	x2, x4	
Polarity invert	Yes	
Image flip / rotate	Yes	
Text overlay	Yes	
Operating temperature	-40°C to +70°C	
Shock	1000g 0.4ms ½ sine X & Y Axis - 700g 0.3ms ½ sine Z Axis	
Size	40Ø x 67mm / 1.57Ø x 2.64 inches	
Weight	107g / 3.8oz	

*NETD measured with f/1.0 aperture and broadband response of detector

**Spectral gauge available on request



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