

# MANTIS™

## Multispectral Infrared Imaging Camera



### Multispectral IR Camera

- Broad coverage range in MWIR & LWIR (2um - 12um)
- Uncooled detector, 640 x 480 pixel array
- Low size, weight and power
- Optical design leverages exclusive chalcogenide materials and maintains focus across all wavelengths
- Capture multiple modalities in one camera
- Target applications include use with drones for thermal imaging, laser beacon recognition and threat detection
- Customized cores and lens assemblies are available



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## Nominal Design Summary

Parameter	Notes	Design	Unit
Waveband	Multispectral (MWIR –LWIR)	2 –12	μm
Lens EFL	Magnification-based	19	mm
Lens F/#	Aperture-based	f/1.1	
Detector Resolution	Horizontal x Vertical / Pitch	640x480 / 17μm	pixels
Field of View	Vertical FOV	24.3	deg
	Horizontal FOV	32.0	deg
	Diagonal FOV	39.3	deg
Lens Distortion	Max over Full Field (corner)	2	%
Relative Illumination	At HFOV	83	%
	At Corner Field	77	%
Size	Camera (length x height x width)	~49 x 52 x 64	mm
	Lens (diameter x length)	~25 x 25	mm
Weight		< 200	g
Power Consumption		1.1	W



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