

# MARKOS Camera Core

## HOT MWIR VGA Camera Core

### Description

- ITAR free VGA MWIR HOT Camera Core with high performance, low SWaP, and linear cooler integration.
- The camera core includes video processing and control features designed for handheld cameras, miniature gimbals for drones & UAVs, and light-weight monitoring devices.
- Full MWIR Spectral Range, High Sensitivity, Common & Simple Electrical Interface.

### Applications



Security /  
Surveillance



Night  
Observation



Drone &  
UAV



Hand-held  
Thermal Imager



Gimbal  
Platforms



Marine  
Navigation



### Images from the 2D IR detector



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## Specifications

Detector	
Type	T2SL
Array format	640 x 512, 15 $\mu$ m
Spectral range	MWIR (3 $\mu$ m~5 $\mu$ m)
F number	F/5.5 (Standard), possible to customize
Thermal sensitivity(NETD)	$\leq$ 25mK
Cool-down time	$\leq$ 5 min. @ room temperature
Electrical	
Frame rate	60Hz
Input Power	+5.0 VDC board, +12.0 VDC SWaP linear cooler
Power Consumption	$\leq$ 5W steady state @ 23°C (Cooler $\leq$ 3W, Electronics $\leq$ 2W)
Control	UART (RS-232)
Video output	NTSC/PAL, HDMI, Camera-link
Mechanical	
Size (W x H x L)	Without lens : 51mm x 75.6mm x 70.1mm
	With lens : 68mm x 82.5mm x 145.4mm
Weight	Without lens : 360g
	With lens : 710g (f/5.5 20-275mm)

## Dimension

