

M507-C

NST thermal imaging analog core

M507-C series infrared thermal image analog core is adopting patented non shutter technology, 640*512 resolution, NETD less than 35mk, compact design and starting time up to 3s.



Non-shutter technology

The image can always keep stable output, without any pause for better suitable observation in realtime.

3s

Rapid start within 3s

Less than 5s for common starting process, customizable booting for 3s.



Ultra-low latency output

Responsive time less than 6ms for imaging output.



Surroundings well-adapted

AI calibration makes image more distinct target even if it is the extreme weather condition.



Optional video output types

Support digital (BT656) and analog signal synchronous outputs

Applications



Coast defence



Integration of scope



Security

Specifications

Items	M507C
Detector	Uncooled VOX FPA
Resolution/ Pixel pitch	640x510/12μm
NETD	≤35mk@F1.0,300K
Spectral range	8~14μm
Focus Method	Fixed lens
Focal length	9/15/19/25/40/50mm etc

Image Effect

Image adjustment	Auto adjustment for contrast ratio & brightness & acutance
Uniformity calibration	NST
Zoom	2x,4x
Noise reduction	Digital filter
Palette	9 Pseudo color palettes changeable
Resolution	768*576
Image mirroring	Horizontal & vertical
Polarity inversion	Black hot & white hot

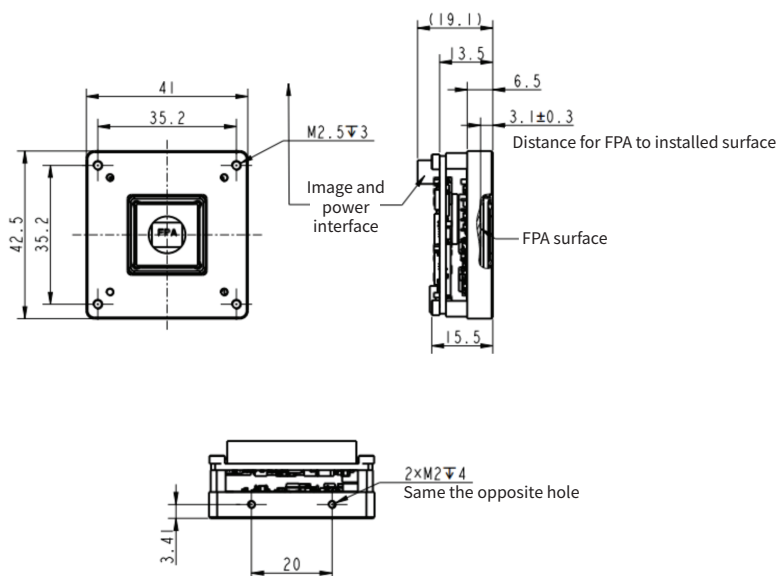
Interface

Power interface	DC:+2.5V~5.5V
Analogue video	Double channels
Series port	RS232
Digital video	8 Bit/14Bit(50Hz)
Keyboard	4 buttons keyboard

General

Working temperature/ humidity	-20°C~+60°C,5%~95%RH
Storage temperature	-40°C~+60°C
Power Consumption	1.3w
Reverse polarity protection	Yes
Starting time	< 5s
Size	42.5mm*41mm*19.3mm
Weight	<35g(w/o lens)

Dimension



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