

Stay cool, to see further.

Phoenix Series Cooled MWIR Imaging Module



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Cooler to see farther

Embedded with mid-wave cooled FPA detector, Phoenix series is featured with high definition, high sensitivity, and unmatched small size, which makes it easier to be integrated.

Navigating



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Maritime

Model		FX640I	FX640E	FX320E
Performance				
Detector Type		InSb IDDCA	HgCdTe IDDCA	HgCdTe IDDCA
Resolution		640×512		320×256
Pixel Pitch		15μm		30μm
Detector Frame Rate	Default Frame Rate	20Hz		
	Top Frame Rate	200Hz	50Hz	100Hz
Response spectrum		3.7~4.8μm		
NETD		≤30mK		≤25mK
Cooling Time		≤8min		
Image Adjustment				

Brightness and Contrast	Manual/Auto 0/Auto 1
Polarity	Black hot/White hot
Reticle	Display/Hide/Move
Focusing	Automatic/Manual
Digital Zoom	1.0~8.0× continuous zoom(step size 0.1)
Image Processing	Non-uniformity correction
	Digital filtering denoise
	Enhancement
Mirror Image	Horizontal/Vertical/Diagonal mirror image
Power Supply	
Power Supply Range	20~34VDC

Typical Working Voltage		24VDC		
Typical Power Consumption@25°C		Stabilized stage≤ 14W	Stabilized stage≤ 14W	Stabilized stage≤ 13W
		During cooling process ≤ 24W	During cooling process ≤ 22W	During cooling process ≤ 21W
Interface				
Video Output	Analog Video	1 Channel PAL/ NTSC Video		
	Digital Video	Camera Link		
Serial Communication Interface		RS-422		
External Synchronization		RS-422/LVTTL		
Physical Characteristics				
Weight		≤1000g		
Size		155mm×75mm×90mm		

Environment Adaptability

Operating Temperature	-40°C ~ +70°C	-40°C ~ +60°C	-40°C ~ +60°C
Storage Temperature	-45°C~+70°C		
Vibration	10Hz~3000Hz, random vibration 6.06g		
Mechanical Shock	30g, 11ms, 3 times per axis		
Humidity	5 ~ 95% non-condensing		

The data above are for reference only. Specifications in the marketed products shall prevail.

Product consulting

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MODULES

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