

# GUIDIR® IR131/133

## Cooled Thermal Imaging Module



Combining HgCdTe high-performance cooled FPA detector with real-time digital image processing circuit, Guide Infrared develops the 3rd generation of cooled FPA thermal imaging module, leading the IR industry of the World. With small size, light weight, low noise, and especially high thermal sensitivity, IR131/IR133 cooled thermal imaging module satisfyingly meet the demand of high accuracy for night vision and security monitoring.

### Applications

- Security application
- System integration
- Research & development

### Features and Benefits

- Small & lightweight
- The 3rd generation technology offering matrix image and long life
- Low noise high resolution and high frame rate
- Standard interface for easy integration
- Flexible for customization

	IR131	IR133
<b>Detector</b>		
Detector Material	Cooled FPA microbolometer HgCdTe	
Spectral Range	3~5 μm	
Pixels	320×256	
Pitch	30 μm×30 μm	
NETD	<15mk@25°C	<8mk@25°C
Thermal Response Time	Stirling, <7min30s	
Fill Factor	>90%	
Bad Pixel	<2%	
<b>Image Presentation</b>		
Video Output	PAL	PAL/NTSC
Frame Frequency	50Hz	50Hz /60Hz
Adjust	Auto/Manual	
Electronic Zoom	×2 interpolating	
Polarity	B&W, B&W inverse	
<b>Interfaces</b>		
Command and Control	RS232/RS422	
<b>Power System</b>		
Power Supply	110/220VAC adapter	
Power Dissipation	When cooling ≤20W@25°C When stable ≤15W@25°C	
<b>Environmental Parameters</b>		
Operating Temperature	-20~50°C (-40~60°C optional)	-40~60°C
Storage Temperature	-20~50°C (-40~60°C optional)	-55~70°C
<b>Physical Characteristics</b>		
Weight	1kg	<0.9Kg
Size	158mm×72mm×91mm	143mm×65mm×90mm



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