

## 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. Small size, light weight, low noise, and especially high thermal sensitivity, IR133 cooled thermal imaging module satisfyingly meet the demand of high accuracy for night vision and security monitoring.*

### 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



### Applications

- Security application
- System Integration
- Research & development



# Specifications

Detector	
Detector Material	Cooled FPA microbolometer HgCdTe
Spectral Range	3~5 $\mu$ m
Pixels	320×256
Pitch	30 $\mu$ m×30 $\mu$ m
NETD	<15mk@25 $^{\circ}$ C
Fill Factor	>90%
Bad Pixel	<2%
Image Presentation	
Video Output	PAL/NTSC
Frame Frequency	50Hz /60Hz
Adjust	Auto/Manual
Electronic Zoom	×2 interpolating
Polarity	B&W,B&W inverse
Interfaces	
Command and Control	RS232/RS422
Power System	
Power Supply	110/220VAC adapter
Power Dissipation	When cooling $\leq$ 20W@25 $^{\circ}$ C When stable $\leq$ 15W@25 $^{\circ}$ C
Environmental Parameters	
Operating Temperature	-20 $^{\circ}$ C~+50 $^{\circ}$ C (-40 $^{\circ}$ C~+60 $^{\circ}$ C optional )
Storage Temperature	-40 $^{\circ}$ C~+60 $^{\circ}$ C
Physical Characteristics	
Weight	<0.9Kg
Size	143mm×65mm×90mm