Specifications

Detector	
Resolution	640×480
Pixel Pitch	17μm
Spectral Range	8~14um
NETD	≤50mk
Image Processing	
Digital Zoom	×2 , ×4
Palette	8 types
Image Flip	Horizontal/Vertical/Diagonal/Original Image (4 types)
Start-up Time	<5s
Start-up Image	Customized colorful start-up image available
Noise Processing	Noise removal coefficient adjustable
AGC Algorithm	Platform and linear AGC algorithm(Platform and linear AGC algorithm switchable, self-adaptive default)
AGC Adjustment	Manual/ Semi-auto/ Auto bright and contrast adjustment
Image Enhancement	Multi-level enhancement algorithm adjustbale (enhancnement detail coeficient adjustable)
Image Presentation	
Analog Video Output	PAL (50Hz) /NTSC (60 Hz)
Digital Video Output	Y16/Y8/Bt.656 optional (Default Y8)
Electric Interface	
Data interface	50pin data interface
Focusing interface	FPC-1.25-04B-D standard interface
IR module Control	
Communication Method	RS232
Baud Rate	115200
Software	Chinese and English (optional) software interface
Power Supply	
Required Voltage	3-5V DC
Power Consumption	≤2W@5V 25℃
Environmental Compatibility	
OperatingTemperature Range	-20℃~+70℃ (-40℃~+70℃ optional)
Storage Temperature Range	-45℃~+85℃
Certicaition	RoHs
Shock	Half sine wave, accelaration of 30g, pulse length of 6ms, 3 times of shock in fixing direction
Vibration	10HZ ~ 40HZ , 0.015g²/HZ ; 40HZ ~ 500HZ , 0.00015g²/HZ, Rms : 1.04291g , 5min , X axis
Humidity	0% ~ 80%, non-condensation
Configuration	
Standard	Module
	Quick start guide
	CD (including software, software manual)
	Warranty card
	Carton box with foam inside
Optional	Drier
	VPC board for USB (for power supply and serial port communication) and analog video output CameraLink board for USB(for power supply and serial port communication), digital video output
	(standard CameraLink) and analog video output
	Micro USB cable 1m/2m USB adapter (European/Chinese/UK/Austrilia/US power plugs optional)
	MCX-AV Analog video cable
	CameraLink digital video cable
	50pin Connector
	Lens mount M45×1
Physical Characteristics	
Size	33mm×48.4mm×54.3mm (without lens mount)
Weight	<120g (without lens or lens mount)

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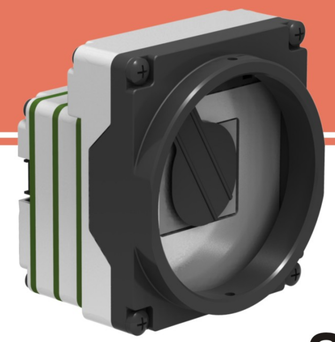
GUIDE



Thermcore II UA640A Standard Thermal Module

the **Thermcore UA640A** is the most ideal choice for integrating any thermal systems demanding high-definition image. Using latest high resolution 640x480 17μm FPA uncooled detector, the image is superior sharp and clear during day, night and other harsh environment such as heavy rain, snow and fog. Together with Guide advanced image processing algorithm inside, you can find more detail information of target. Standard video interface, friendly free software and powerful expansion function board, it will bring you an unprecedented easy and fast integration experience.

Features and Benefits

- 640x 480 high resolution
- 17 μm pixel size
- 9 palettes optional
- 2× and 4× digital zoom
- Analog (BT.656) and digital video outputs available
- 50Hz (PAL) and 60Hz (NTSC), full frequency video output
- Intelligent Image Enhancement (IIE)
- Noise removal algorithm
- Histogram statistical AGC algorithm
- Fast start-up (<5 seconds)
- Customized splash screen
- Standard interface, powerful expansion function
- 3-year warranty time

Applications

- System Integration
- Security and Surveillance
- Man-portable Imaging Device
- R&D
- UAV/UGV