



# inT440 *Thermal*<sup>©</sup> **TIGER**



## Standard Thermal Module

### Features and Benefits

- Self-developed 400×300 a-Si FPA
- Compact size 40mm×40mm×42.88mm±0.5mm
- Electric-magnetic shutter calibration design
- Powerful bolt-on type expansion feature boards for different applications
- Insulation structure designed with heat emission in mind, excellent stability in wide ambient temperature range
- Intelligent Image Enhancement (IIE)
- Intelligent brightness & contrast algorithm
- SDK based on Window OS is available, supporting C++, C#, VB, Delphi
- Universal lens mounting interface, 8 lenses are optional
- Serial port control protocol
- Optional customized start-up picture

### Applications

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



# Specifications inT440

Detector	400x300, 25 μm a-Si
Frame Rate	50Hz/60Hz
Video Output	PAL/NTSC(optional)
Calibration Algorithm	Electric-magnetic shutter calibration Intelligent Image Enhancement(IIE)
Imaging Algorithm	AGC brightness & contrast adjustment
	8 palette mode
	Flip image function
	x2, x4 Zoom in
Features	Remote serial port upgrade
	Analog(BT.656) / Digital video output
	Optional Extension feature boards are available to mount
Power Input	Host computer SOK is available
	3-5V DC(Support Mini USB Port) ◆1.8W@5V, 25 °C
Interface	RS232
	Digital video standard Cameralink output (Y16/Y8) / BT.656
	DC power input
	Analog video output
	External synchronization 10
Lens	M34/M45 Standard M34/M45 mounting interface
	9.6mm/14.8mm/19mm/25mm Fixed focus athermalized lens
	40mm Manual lens 75mm/100mm/150mm Motor-driven lens
Working Temperature	-40 °C- +55 °C
Storage Temperature	-45 °C- +80 °C
Humidity	5%-80% Relative humidity, non-condensation
Vibration	10Hz-40Hz, 0.015g <sup>2</sup> /Hz, 0.00015g <sup>2</sup> /Hz
	Rms:1.04291g, 5min, X axis
Shock	Half sine wave, acceleration of 30g, pulse length of 6ms, 3 times of shock in fixing direction
Certification	RoHs
Dimensions	40mm x 40mm x 42.88mm±0.5mm (without lens)
Weight	90g (without lens)
Optional Accessories	Standard digital video output Cameralink extension board
	Versatile VPC standard port board (analog video output, power input, serial port)