IR Thermal Imaging Camera 640

Technical Features

- Shutterless thermal technology
- Compact Size 38x38x20.5mm
- Light weight <40g
- Time to image <3s
- Advanced WDR image processing
- Continuous digital zoom
- Adjustable crosshair
- Multiple lens available
- User-defined symbology supported
- Auto-focus supported
- IPC & TNV expansion boards supported
- -40~ +75°C operating temp range supported

Typical Application

- Security
- Vehicle System
- Secondary Development



Description

Our thermal imaging cores 640 are with shutterless technology, high sensitivity, and continuous digital zoom and WDR image processing to offer high quality thermal imagery performance. And multiple infrared lens and expansion board's options are available to enhance their functions for integrators.

IR Thermal Imaging Camera 640 have been increased electronics to offer low power consumption of thermal system integrations. Their common mechanical & electrical compatibility is between different thermal cores formats for thermal integrators, and make them well-suited for thermal applications and thermal integrations, such as unmanned aerial vehicles, handheld thermal imagers, thermal night vision systems, driving vision enhancement, thermal imaging sights, security and surveillance, and more.

Technical Parameters

Detector Data					
	Unacalad Microbalamatay Vay datastay				
Detector Type	Uncooled Microbolometer, Vox detector				
IR resolution	640 x 480 pixels				
Pixel pitch	17μm				
Spectral range	8~14μm				
Frequency	50Hz				
Image Presentation					
Non uniformity calibration	Shutterless technology				
Thermal sensitivity(NETD)	<40mK @ f/1.0 IR lens				
Time to image	<5s				
Digital zoom	Continuous zoom(80~400); 2x, 4x (via RS232 command controlled)				
Core control	Image mode(AGC), digital zoom, false color or monochrome thermal video, contrast, brightness, sharpness, denoise, zero cross, system settings				
Image mode	Auto FG, Auto BG, Manual				
User-defined Symbology	Supported				
Crosshair	Two or more, adjustable				
Video output	False color Analog video & digital video (BT.656)				
Physical Data					
Weight (w/o lens & cover)	<40g				
Size (w/o lens & cover)	38 x 38 x 20.5 mm				
	10 M2 X 4 on rear of core frame				
Mounting	UNC ¼"-20(optional accessory)				
Environment Data					
Operating temperature	-40°C∼+60°C				
	-40°C \sim +75°C (customized, optional)				
Storage temperature	-50°C∼+70°C				
Shock	650g; 11msec shock pulse(all axes)				
Vibration	5.6g 3axes, 8hours each				
Humidity	5% ~ 95% Non-condensing				
Packing Includes					
Standard	Thermal imaging core, serial Interface cable, manual CD, warranty card				
Option	IR lens				
Interface & Expansion board					

	50-pin standard board 20-pin expansion board			
Primary Electrical Connector	50-pin 20-pin output			
Control port	UART RS232 LVCMOS +2.5V~3.3V			
Working Voltage Range	VDC: +2.3V ~ 6.0V (typical working voltage +3.7V)			
Power dissipation	< 1.1W			
Analog video output	PAL(standard)			
Digital video output	BT.656(standard), (optional for LVDS or CMOS)			
	IPC board(optional)			
Size	38 x 38 mm			
Controlled	Web (UART optional)			
Working voltage range	12VDC			
Communication	ONVIF			
Video output	H.264 & Analog			
Procurement request	With the specified MiniHawk series together			
	Advanced TNV board (optional)			
Size	38 x 38 mm			
Working voltage range	VDC: +2.3~6.0V 6-36V			
Video output	2 Analog video, BT.656 digital video			
Keypad(Menu), battery, OLED	Yes			
Control	RS232 (RS422 RS485 optional)			
Storage	Built-in 8GB(standard)(up to 128G optional)			
Data transmission	USB			
Supported(optional)	Auto-focus , Wi-Fi , Laser rangefinder			
Procurement request	With the specified MiniHawk series together			
	TNV Board (optional)			
Size	38 x 38 mm			
Working voltage range	VDC: +2.3~6.0V 6-36V			
Video output	2 Analog video, BT.656 digital video			
Keypad(Menu), battery, OLED	Yes			
Control	RS232 (RS422 RS485 optional)			
Storage	N/A			
Data transmission	N/A			
Supported(optional)	Auto-focus			
Procurement request	With the specified MiniHawk series together			

IR Thermal Imaging Camera S640 (Shutter)

Technical Features

- Compact Size 38x38x28.5mm
- Light weight <60g
- Time to image <3s
- Advanced WDR dynamic image processing



- Adjustable crosshair
- User-defined symbology supported
- Multiple infrared lens optional
- IPC & TNV expansion boards optional

Typical Application

- Security
- Vehicle System
- Secondary Development



Description

Our IR thermal imaging camera S640 are with high sensitivity, continuous digital zoom and WDR image processing to offer high quality thermal image video. And multiple infrared lens and expansion board's options are available to enhance their functions.

IR Thermal Imaging Camera S640 provide common mechanical & electrical compatibility between different thermal cores formats for thermal integrators, make them well-suited for thermal applications and thermal integrations, such as unmanned aerial vehicles, handheld thermal imagers, thermal night vision systems, driving vision enhancement, thermal imaging sights, security and surveillance, and more.

Technical Parameters

Detector Data				
Detector Type	Uncooled Microbolometer, Vox detector			
IR resolution	640 x 480 pixels			
Pixel pitch	17μm			
Spectral range	8~14μm			
Frequency	50Hz			
Image Presentation				
FFC duration	<0.5s			
NUC calibration	Auto Manual, NUC interval time adjustable			
Thermal sensitivity(NETD)	<40mK @f/1.0 IR lens			
Time to image	<3s			
Digital zoom	Continuous digital zoom(80~400);			
Digital 200111	2x, 4x (via RS232 command controlled)			
Image control	Image mode(AGC), digital zoom, false color or monochrome thermal video,			
	contrast, brightness, sharpness, denoise, zero cross, system settings			
Image mode	Auto FG, Auto BG, Manual			
User-defined Symbology	Supported			
Crosshair	Two, adjustable			
Video output	False color Analog video & digital video (BT.656)			
Physical Data				
Weight (w/o lens & cover)	<60g			
Size (w/o lens & cover)	38 x 38 x 28.5 mm			
Mounting	8 M2 X 4 on rear of core frame			
	UNC ¼"-20(optional accessory)			
Environment Data				
Operating temperature	-40°C ~+60°C			
Storage temperature	-50℃~+70℃			
Shock	650g; 11msec shock pulse(all axes)			
Vibration	5.6g 3axes, 8hours each			
Temperature shock(5°/min)	Yes			
Humidity	5% ~ 95% Non-condensing			
Packing Includes				
Standard	Thermal imaging core, serial Interface cable, manual CD, warranty card			
Option	IR lens			
Interface & Expansion board				
	50-pin standard board 20-pin expansion board			

Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage Built-in 8GB(standard)(up to 128G optional) Data transmission USB Supported(optional) Auto-focus , Wi-Fi , Laser rangefinder Procurement request With the specified MiniHawk series together TNV Board (optional) Size 38 x 38 mm Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Primary Flectrical Connector	50-nin 20-nin outnut			
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Data transmission Supported(optional) Auto-focus , Wi-Fi , Laser rangefinder Procurement request With the specified MiniHawk series together TNV Board (optional) Size 38 x 38 mm Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Control	RS232 (RS422 RS485 optional)			
Supported(optional) Auto-focus , Wi-Fi , Laser rangefinder With the specified MiniHawk series together TNV Board (optional) Size 38 x 38 mm Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Storage	Built-in 8GB(standard)(up to 128G optional)			
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Size 38 x 38 mm Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED 7	Procurement request	With the specified MiniHawk series together			
Working voltage range VDC: +2.3~6.0V 6-36V Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage N/A N/A Supported(optional) Auto-focus		TNV Board (optional)			
Video output 2 Analog video, BT.656 digital video Keypad(Menu), battery, OLED Yes Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Size	38 x 38 mm			
Keypad(Menu), battery, OLED Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Working voltage range	VDC: +2.3~6.0V 6-36V			
OLED Yes Control RS232 (RS422 RS485 optional) Storage N/A Data transmission N/A Supported(optional) Auto-focus	Video output	2 Analog video, BT.656 digital video			
Storage N/A Data transmission N/A Supported(optional) Auto-focus	Keypad(Menu), battery, OLED	Yes			
Data transmission N/A Supported(optional) Auto-focus	Control	RS232 (RS422 RS485 optional)			
Supported(optional) Auto-focus	Storage	N/A			
Supported(optional) Auto-focus		N/A			
	Supported(optional)	Auto-focus			
i room cinera roquest vviti the specifica ivililitavik selles together	Procurement request	With the specified MiniHawk series together			

Lens specification



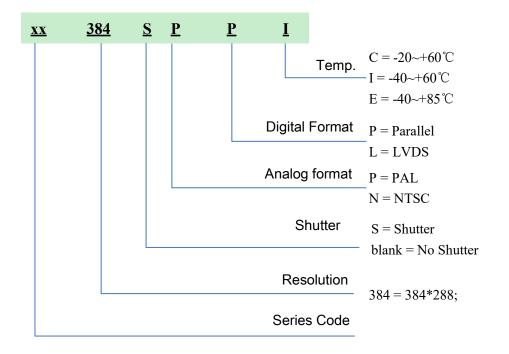


Focal length	15mm	25mm	40mm	75mm
FOV (H x V)	35x27	22x16	14x10	7x5
Min-Dist. (m)	1	1	1	2
F#	1.0	1.0	1.0	1.0

Note: The lens must be specified at the factory and cannot be replaced by yourself.



Order Information



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 $^{^{2}}$ 320 = 320*240; 384 = 384*288; 640 = 640*480; 1280 = 1280*1024;