

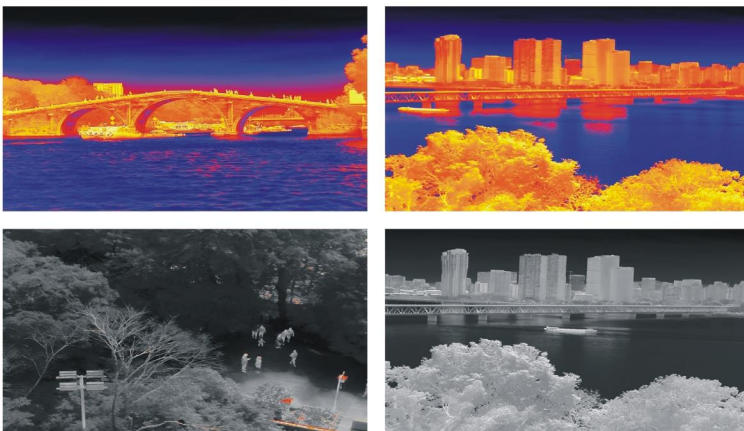


THERMAL IMAGING CORE SupCor1280

Thermal imaging core SupCor1280 is with a 12um remarkable 1.3 MP Vox detector, provides vivid HD thermal video output to ensure user to see more subject details at any harsh environment.

The core SupCor1280 utilizes image enhancement for advanced image processing, and being embedded with Auto-focus driver to offer clear thermal imaging video with zoom lens.

The core SupCor1280 is easy and convenient integrated into thermal systems with multi interface output, and widely used for thermal security and surveillance systems, as well as in industrial imaging systems.



Benefits & Features

- High resolution: 1280 x 1024 pixels, 12um
- Small size: 48 x 48 x 44.8 mm(w/o lens)
- Light weight: < 170g (w/o lens)
- Time to image: < 8s
- Continuous digital zoom: 65x - 400x
- Pseudocolor analog output
- HDMI digital video output
- Auto-focus driver integrated
- Cameralink interface optional
- Expansion board available
- Variety infrared lens optional

Technical Specifications

SupCor1280	
Detector data	
Detector Type	Uncooled LWIR VOx Microbolometer
IR resolution	1280 x 1024 pixels
Pixel pitch	12 μm
Spectral range	8~14 μm
Frequency	50 60Hz
Image Presentation	
FFC duration	<0.5s
NUC Calibration	Auto Manual, NUC interval time adjustable
Thermal sensitivity (NETD)	<35mk@300K, f1.0
Time to image	<8s
Digital zoom	continuous digital zoom x65 - x400
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
Core control	Auto Manual via GUI or serial command
Analog video output	PAL(standard), NTSC(optional)
Digital video output	HDMI(BT1120 1080p50Hz, Cameralink optional)
Interface	
Primary Electrical connector	60-PIN output(standard board) 40-PIN output(expansion board)
Control port	UART RS232 LVCMOS 2.5V-3.3V
Working voltage range	DC: +5V~6V
Powr dissipation	<3.5W@5V (<10W@max)
Environment Data	
Operating temperature	-40℃~60℃
Storage temperature	-45℃~65℃
Physical Data	
Weight (w/o lens)	<170g(w/cover)
Size (w/o lens)	48 x 48 x 44.8 (w/o lens)
Encapsulation	IP67 (for lens)
Mounting	3 M2 x 3.5 mm at bottom of frame
Packing included	
Standard	Thermal imaging core, serial Interface cable, manual CD, warranty card
Optional	IR lens

Lens data		50mm	75mm	100mm	150mm	165mm	225mm
Focus Length		1	1	1	1	1	1
F/#		1	1	1	1	1	1
FOV	SupCor1280(12um 1280*1024)	17.5° x 14°	11.7° x 9.4°	8.8° x 7.0°	5.9° x 4.7°	5.3° x 4.3°	3.9° x 3.1°
Range Performance	For Human	D	2085m	3125m	4165m	6250m	9375m
		R	520m	780m	1040m	1560m	2345m
		I	260m	390m	520m	780m	1170m
	For Vehicle	D	6390m	9580m	12775m	19165m	28750m
		R	1595m	2395m	3195m	4790m	7185m
		I	795m	1195m	1595m	2395m	3595m

Comments:

- 1.FOV is calculated by maths formular without considering distortion.
- 2.Min focus distance: athermal lens depends on the lens thread which is allowed to move the maximum distance. (the lens data might be inaccurate or inappropriate).
- 3.Manual & motorized lenses data are not indicated, please contact iTherml for more detailed information.
- 4.The lens length refers to the distance from the lens front surface to the end of the lens.
- 5.DRI: DRI value is the nominal value, only for estimated value. DRI accurately calculated depending on a variety of specific conditions, please contact iTherml for specific applications.
- 6.Customized lense are available, including manual, athermal, motorized lenses.

**iTherml shall reserve the right to adjust the SupCor1280 parameters without any note.



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