

DS-2TA03-15SVI

Thermographic Automation Thermal Camera



The Thermographic Automation Thermal Camera is able to measure object's temperature at a high accuracy in real time. With the advantage of small size, low power consumption and easy integration, it can independently be used, or be integrated into devices like intelligent robots for equipment maintenance, failure detection, industrial process control, etc. The industries it can be applied to include electric system, industrial automation and so on.

Thermal Imaging Module Function:

- 384 × 288 resolution, high sensitivity sensor, support contrast adjustment
- Support point, line and frame for temperature measurement
- Temperature Range: -20 to 550°C; Temperature accuracy: $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ (larger value)
- Reliable temperature exception alarm function
- 3D DNR, image detail enhancement
- Support mirror image, and local output



Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	384 × 288
Pixel Pitch	17μm
Response Waveband	8μm to 14μm
NETD	< 40mk (@25°C,F#=1.0)
Lens (Focal Length)	15mm
Focus Mode	Auto, Manual, Semi-auto. Support Regional Focus
MRAD (IFOV)	1.13
Field of View	25° × 19°
Min. Focusing Distance	0.5
Aperture	F 1.0
Compression Standard	
Video Compression	Main stream: H.265/H.264 Sub-stream: H.265/H.264 Support custom stream
H.264 Type	Baseline Profile/Main Profile/High Profile
H.264+	Main stream and sub-stream support.
H.265 Type	Main Profile
H.265+	Main stream and sub-stream support.
Video Bit Rate	256 Kbps to 16 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/
Smart Feature-set	
Exception Detection	Audio exception detection
Region of Interest	4 fixed regions for main stream, sub stream
Temperature Range	-20°C to 150°C (-4 ° F to 302 ° F) 0°C to 550°C (32 ° F to 1022 ° F)
Temperature Accuracy	±2°C(±3.6° F) or ±2% (larger value)
Temperature measurement Type	Display Max. and Min. temperature in live view 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).
Thermometry Integration	
External Optics Correction	Support Thermal Optical Transmittance and Manual Input External Optics Temperature Support Calibration Coefficient calculation
Temperature Info. of Thermometry Rule	Real- time Output Time Interval: 500 ms
Temperature Info. of Image	Real- time Output Default is 4 fps, 32bit × 384 × 288 per frame 16 bit and 32 bit are selectable
Capture Thermal Graphic	32bit 384 × 288
Metadata Output	Max. 50 fps (16bit 384 × 290)
Image	
Main Stream	50Hz: 50fps (384 × 288)
Sub Stream	50Hz: 50fps (384 × 288)
Image Enhancement	3D DNR, EIS
Image Setting	Rotate mode, brightness, contrast and AGC adjustable by client software or web browser
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Burning Prevention	Auto, Manual
Network	
Network Storage	Built-in 32GB memory and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, QoS, IPv6, UDP, Bonjour
General Function	One-key reset, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
API	ONVIF(PROFILE S,PROFILE G), PSIA, CGI, ISAPI
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
General	
Power supply	10 VDC to 30 VDC, two-core terminal block
Power Consumption and Current	12 VDC, 0.5 A, max. 6W
Working Temperature and Humidity	-20 °C to 50 °C (-4 °F to 122 °F), humidity less than 95%
Protection level	IP40
Dimension (L x W x H)	Camera: 60 × 60 × 120 mm (2.4" × 2.4" × 4.7") With package: 251 × 215 × 189 mm (9.9" × 8.5" × 7.4")
Weight	With Lens: 600g (1.32lb) Without Lens: 350g (0.77lb)

Order model:

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Dimensions :

