



HTD2636B-13-P



FEATURES

Thermographic Bullet Camera

- 384 × 288 High Resolution Thermal Channel, High Sensitivity Sensor
- Accuracy: $\pm 0.9^\circ \text{ F}$ ($\pm 0.5^\circ \text{ C}$) at 8.2 feet to 22.0 feet (2.5 m to 7 m)
- Reliable Temperature Exception Alarm Function
- 4 MP Resolution Optical Channel
- 3D DNR, Image Detail Enhancement

Thermal Module	
Image Sensor	Vanadium Oxide un-cooled focal plane arrays
Maximum Resolution	384 × 288
Pixel Interval	17 μm
Response Waveband	8 μm to 14 μm
NETD	$\leq 35 \text{ mk}$ (@ 25° C, F# = 1.0)
Lens Focal Length	13 mm
IFOV	1.13 mrad
Field of View	28.8° × 21.6° (H × V)
Minimum Focusing Distance	1.6 ft (0.5 m)
Aperture	f/1.0
Optical Module	
Maximum Image Resolution	2688x1520
Image Sensor	1/2.7" progressive scan CMOS
Minimum Illumination	Color: 0.0089 lux @ (f/1.6, AGC on), B/W: 0.0018 lux @ (f/1.6, AGC on)

Thermal Module	
Shutter Speed	1s to 1/100,000s
Lens (Focal Length)	6mm
Field of View	51.7° × 28° (H × V)
WDR	120 dB
Day/Night	IR cut filter with auto switch
Image Function	
Bi-Spectrum Image Fusion	Display optical channel details on thermal channel
Picture-in-Picture	Display partial image of thermal channel on full screen of optical channel
Smart Function	
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 areas, 1 line)
Temperature Accuracy	±0.9° F (±0.5° C) at 8.2 feet to 29.52 feet (2.5 m to 9 m)
Infrared	
IR Distance	Up to 164 ft (50 m)
IR Intensity and Angle	Automatically adjusted
Network	
Main Stream	Optical: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)
Sub-Stream	Optical: 30 fps (704 × 480, 352 × 240, 176 × 120) Thermal: 25 fps (704 × 576, 352 × 288, 320 × 240)
Video Compression	H.265/H.264/MJPEG
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 20
User/Host Level	Up to 32 Users, 3 levels: administrator, operator, user
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE802.1x access control, IP address filtering
Integration	
Alarm Input	2-ch inputs (0–5 VDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/relay output/smart capture/FTP upload/e-mail linkage
Audio Input	1 x 3.5 mm mic in/line in interface, line input: 2 to 2.4 V [p-p], output impedance: 1K Ω ±10%
Audio Output	Linear level; impedance: 600 Ω
Reset	1 x reset button
Communication Interface	1 x RJ-45 10M/100M self-adaptive Ethernet interface, 1 x RS-485 interface
SD Memory Card	Built-in microSD card slot, supports microSD/SDHC/SDXC card (up to 256 GB), supports manual/alarm recording
Analog Video Output	1.0 V [p-p]/75 Ω, BNC, PAL/NTSC

Thermal Module	
Web Browser	IE9+, Chrome 31–44, Firefox 30–51, Safari 5.02+ (mac)
General	
Power	24 VAC $\pm 25\%$, 12 VDC $\pm 25\%$, two-core terminal block PoE (802.3af, class 3)
Power Consumption	18 VAC to 30 VAC: 0.38 A to 0.22 A, maximum 9 W 9 VDC to 15 VDC: 0.63 A to 1.06 A, maximum 9 W PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, maximum 9.5 W
Working Temperature / Humidity	Temperature: 50° to 95° F (10° to 35° C) (indoor and windless environment use only, humidity: 95% or less (non-condensing))
Protection Level	IP66 standard, TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	14.81" \times 4.68" \times 4.65" (376.1 mm \times 119.1 mm \times 118.1 mm)
Weight	Approximately 4.01 lb (1.82 kg)
Mounts	
Corner	HTH-276ZJ
Pole	HTH-275ZJ