

KX-H02TN

Thermal Body Temperature Monitoring Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- 400 × 300 Vanadium Oxide Uncooled FPA
- Athermalized lens (thermal camera), focus-free
- Smart linkage with strobe light & audio
- Temperature Accuracy $\pm 0.3^{\circ}\text{C}$ with black body
- Temperature Measurement Range: 30°C to 45°C
- IP67; Micro SD storage

Thermal		
Effective Pixels	400(H) x 300(V)	
Pixel Size	17um	
Spectral Range	8 ~ 14um	
Thermal Sensitivity (NETD)	$\leq 40\text{mK}@f/1.0$	
Focal Length	10mm	13mm
Field of View	H: 36.2° , V: 27.5°	H: 30° , V: 22.6°
Focus Mode	Athermalized	
Aperture	F/1.0	
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR	
Lens Type	Fixed/F1.0	
Digital Detail Enhancement (DDE)	Yes	
AGC	Auto; Manual	
Noise Reduction	2D NR; 3D NR	
Image Flip	180°/Mirror	
Color Palettes	18 (Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Icnobw1/Icnobw2 .etc)	
Temperature Measurement Range	30°C to 45°C (86°F to 113°F)	
Temperature Accuracy	$\pm 0.3^{\circ}\text{C}$ (with black body) when the environment temperature is 10°C to 30°C (50°F to 86°F)	
Visible		
Image Sensor	1/2.8" 2M CMOS	
Effective Pixels	1920(H)x1080(V)	
Electronic Shutter Speed	1/1 ~ 1/30,000s	
Min. Illumination	Color: 0.01Lux@F1.6; B/W: 0.001Lux@F1.6; 0 Lux (IR on)	
IR Distance	≥ 50 m (164 ft)	
IR On/Off Control	Auto/Manual	
IR LEDs	1	
Focal Length	6mm	8mm
Max Aperture	F2.0	F2.0
Angle of View	H: 52.8° , V: 30.3°	H: 40° , V: 22°

Focus Mode	Fixed
Close Focus Distance	0.7 m (2.3 ft)
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto/Manual/Indoor/Outdoor/Tracking/Sodium lamp/Street lamp/Natural
AGC	Auto; Manual
Noise Reduction	2D NR; 3D NR
S/N Ratio	≥ 55 dB
Region of Interest (ROI)	Yes
Image Flip	180°/Mirror
Exposure Compensation	Yes
Video and Audio	
Compression	H.265/H.264M/H.264H/H.264B
Resolution	Thermal Main stream: 1280×1024 , 1280×960 , 1280×720 , 400×300 . 1280×960 by default Sub stream: 640×512 , 640×480 , 400×300 . 400×300 by default Visible Main stream: 1080P (1920×1080), 720P (1280×720), D1 (704×576). 1080P by default Sub stream: D1 (704×576), CIF (352×288). CIF by default
Frame Rate	Thermal (50Hz): Main stream: 1fps–25fps adjustable. 25fps by default; sub stream: 1fps–25fps adjustable. 15fps by default. Visible (50Hz): Main stream: 1fps–25fps adjustable. 25fps by default; sub stream: 1fps–25fps adjustable. 15fps by default.
Audio Compression	G.711a; G.711mu; AAC; PCM
Network	
Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; Multicast; SFTP; 802.1x;
Edge Storage	Micro SD card (256G)

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Interoperability	ONVIF Profile S & G, API
Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier
User/Host	20 users at most (total bandwidth 64M)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
Port	
Ethernet	10M/100M Ethernet port (RJ-45)
Audio Interface	In/Out 1/1
RS485	1 pair
Alarm	2/1 In/Out
Power	
Power Supply	12V±20% DC; POE (802.3af); ePOE
Power Consumption	Basic consumption: <8W (12V DC) Max consumption: <18W (12V DC, without power adapter)
Environmental	
Operating Temperature	10°C to +30°C (50°F to 86°F)
Operating Humidity	≤93%@40°C (104°F)
Ingress Protection	IP67

Structure	
Product Dimensions	291.6 mm × 103.8 mm × 96.7 mm (11.48" × 4.09" × 3.81")
Packaging Dimensions	365 mm × 175 mm × 176 mm (14.37" × 6.89" × 6.93")
Net Weight	≤1.8 kg (3.97 lb)
Cross Weight	≤2.3 Kg (5.07 lb)
Dimensions (mm[inch])	

