Thermal & Optical Bi-spectrum Network Bullet Camera

TIC2A32SA-F7-4F6AC-I1





Features

- Thermal & Optical dual-spectrum image, dual video with single IP address, adaptable to more various scenes
- 1/2.8" target surface, high sensitivity sensor, satisfy the need of starlight monitoring
- Thermal module support reliable fire detection, smoking detection and fire shield area
- Thermal module supports temperature detection and cold&hot spot tracking which highlights the abnormal temperature, and link to alarm
- Thermal & Optical dual-spectrum smart intrusion prevention: cross line, enter area, leave area, intrusion
- Optical module supports smog recognition, which can help with fire alarm reconfirm
- Support picture-in-picture mode, real-time contrast live, more convenient and clear
- Support audio and light alarm, with red and blue warning lights built in
- Ultra 265, H.265, H.264, MJPEG
- Max 2688*1520@30fps in the optical module and Max 960P@30fps in the thermal module
- DC12V25% or PoE power supply
- Alarm 2 in and 2 out, Audio 1 in and 1 out, Micro SD, up to 512 GB

Specifications

Channel	Optical	Thermal			
Camera					
Sensor	1/2.8" CMOS	Vanadium oxide uncooled focal plane arrays			
Min. Illumination	Colour: 0.003 lux (F1.6, AGC ON) B/W: 0.002 lux(F1.6,AGC ON) 0 lux with IR	N/A			
Day/Night	IR-cut filter with auto switch (ICR)	N/A			
Original Resolution-Thermal	N/A	256*192			
Pixel Size	N/A	12 um			
NETD	N/A	< 50 mk @ F1.0 @ 25 °C			
Shutter	Auto/Manual,1 to 1/100000 s				
WDR	120 dB				
S/N	>56 dB				
Lens					
Focal Length	6.0 mm	7 mm			
Iris	F1.6	F1.0			
Field of View (H)	53.8°	25.0°			
Field of View (V)	29.3°	18.8°			
Field of View (D)	66.2°	30.8°			
DORI					
DORI Distance (Detect)	135.0m(442.9ft)	N/A			
DORI Distance (Observe)	54.0m(177.2ft)	N/A			
DORI Distance (Recognize)	27.0m(88.6ft)	N/A			
DORI Distance (Identify)	13.5m(44.3ft)	N/A			
Illuminator					
Wavelength	750 nm	N/A			

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Illumination Distance (IR)	50m	N/A			
Light On/Off Control	Auto/Manual	N/A			
Video					
Frame Rate	4MP(2688*1520), Max 30fps 960P(1280*960), Max 30fps				
Video Compression	Ultra 265, H.265, H.264, MJPEG				
Video Bit Rate	128 Kbps to 16 Mbps				
U-code	Support				
ROI	Support				
Video Stream	Triple Streams				
OSD	Up to 8 OSDs				
Privacy Mask	Up to 8 areas (8 blacks/ 8 mosaics)	N/A			
Image					
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2	N/A			
Digital Noise Reduction	2D/3D DNR				
Flip	Normal, Flip Vertical, 180°, Flip Horizontal, 90° Clockwis	se, 90° Anti-clockwise			
Defog	Digital Defog N/A				
Palette-Thermal	N/A	white hot, lava, iron oxide red, hot iron, medical, arctic rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, mazarine, fusion, red hot, green hot, color 1 color 2, rain, puce			
Intelligent					
Smart Intrusion Prevention	Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)				
Smoke and Fire Detection	Support	N/A			
Temperature Measurement Accuracy	±8 °C (±14.4 °F) or ±8% (whichever is greater)				
Temperature Range	Selectable between -20 °C to 150 °C (-4 °F to 302 °F) and 100 °C to 550 °C (212 °F to 1022 °F)				

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Temperature Detection-Thermal	N/A	Thermal channel supports rule-based temperature measurements.Supports real-time display of the highest, lowest, and average temperatures in the rule-defined area on the screen			
Smoking Detection-Thermal	N/A	Thermal channel supports the detection of smoking behavior in the environment			
Events					
Fire Detection	N/A Support				
Basic Detection	Motion Detection, Tampering Alarm, Audio Detection	N/A			
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication, Alarm Input, Alarm Output				
Audio					
Audio Compression	G.711U, G.711A				
Audio Bitrate	128 Kbps				
Two-way Audio	Support				
Suppression	Support				
Sampling Rate	16KHZ				
Storage					
Edge Storage	Micro SD, up to 512 GB				
Network Storage	ANR				
Network					
Protocols	IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH				
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK				
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator				
Client	EZStation, UNV-Link, UNV-Link Pro				
Web Browser	Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+				
Interface					
Built-in Mic	Support				
Built-in Speaker	Support				
Audio I/O	1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]				
Alarm I/O	2/2				

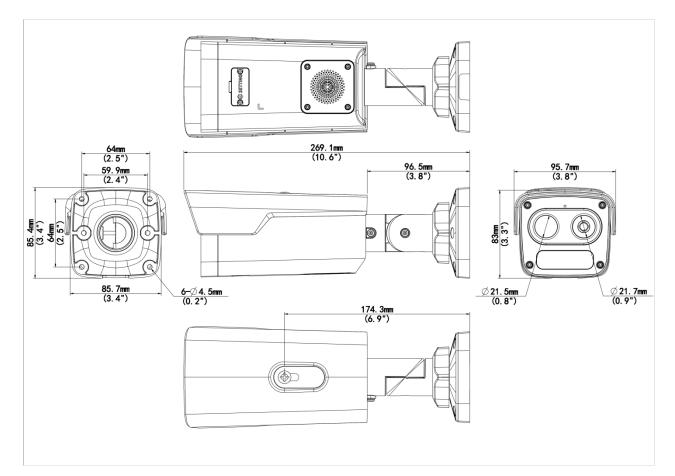
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Serial Port	1 channel RS485 interface				
Network	1 × RJ45 10 M/100 M Base-TX Ethernet				
Video Output	N/A 1 BNC (For debugging)				
Certification					
EMC	CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 50130-4:2011+A1:2014) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)				
Safety	CE LVD (EN IEC 62368-1:2020+A11:2020) UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)				
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)				
Protection	IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)				
General					
Power	DC12V(±25%), PoE(IEEE802.3af)				
Power Consumption	Max 12W				
Power Interface	Ø5.5 mm coaxial power plug				
Dimensions	269.1 x 95.7 x 83mm (10.6" x 3.75" x 3.25")(L x W x H)				
Weight	0.95kg(2.1lb)				
Working Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: \leq 95% RH (non-condensing)				
Storage Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: \leq 95% RH (non-condensing)				
Surge Protection	6 KV				
Reset Button	Support				
RTC	Support				
Web Client	1 Language				
Language	English				
Live View					
Maximum Bitstream	35				
Maximum Bandwidth	50 Mbps				
OSD Font	Vector				
OSD Color	Support				

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OSD Character Number	40
Other	
Corridor Mode	Support
Software Version	Q6202

Dimensions



Accessories

TR-UP06-B-IN

Bullet Pole Mounting Bracket

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TR-WM06-C-IN

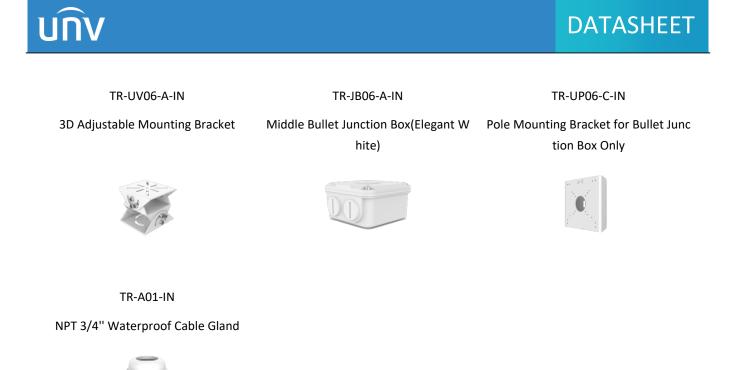
TR-UP06-IN

Universal Pole Mounting Bracket

Wall Mounting Bracket for 6inch Bullet Camera









DRI Description

The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria. Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels. Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels. Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

DRI Range Table

Lens	Detection Range (Vehicles:4.0 × 1.4 m)	Detection Range (Humans:1.8 × 0.5 m)	Recognition Ra nge (Vehicles: 4 .0 × 1.4 m)	Recognition Ra nge (Humans: 1. 8×0.5 m)	Identification R ange (Vehicles: 1.4 × 4.0 m)	Identification Rang e (Humans: 1.8 × 0 .5 m)
3.2mm	316m	126m	79m	32m	53m	21m
7mm	690m	277m	173m	69m	99m	40m
10mm	986m	395m	247m	99m	141m	56m

Smart Function Table(Thermal)

Lens	SIP Detection Ran ge (Vehicles:4.0 × 1.4 m)	SIP Detection Ran ge (Humans:1.8 × 0.5 m)	Fire Detection Ran ge (target: 0.1x 0.1 m)	Smoking detection (target: cigarette bu tt)	Temperature detection (t arget: 0.1m x 0.1m)
3.2mm	60m	30m	13m	2m	8m
7mm	140m	70m	29m	5m	20m
10mm	200m	100m	48m	7m	30m

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