

Thermal & Optical Bi-spectrum Network Bullet Camera

TIC2A32SA-F3-4F4AC-I1





Features

- Thermal & optical dual-spectrum image, dual video with single IP address, adaptable to various scenes
- 1/2.8" target surface, high sensitivity sensor, suitable for starlight monitoring
- Thermal module supports reliable fire detection and fire shield area
- Thermal module supports temperature detection and cold&hot spot tracking, which highlights abnormal temperatures and links to alarm
- Thermal & optical dual-spectrum smart intrusion prevention can be enabled simultaneously: cross line, enter area, leave area, intrusion
- Optical module supports smog recognition, which can help with fire alarm reconfirmation
- Supports picture-in-picture mode, real-time contrast live, more convenient and clear
- Supports audio and light alarm, with red and blue warning lights built in
- Ultra 265, H.265, H.264, MJPEG
- Max 2688 × 1520@30 fps in the optical module and max 960P@30 fps in the thermal module
- DC 12 V ± 25% 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
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Camera					
Original					
Resolution	N/A 256 × 192				
Sensor	1/2.8" CMOS Vanadium oxide uncooled focal plane arrays				
	Colour: 0.003 lux (F1.6, AGC ON)				
Min. Illumination	B/W: 0.002 lux(F1.6,AGC ON)	N/A			
	0 lux with IR				
Day/Night	IR-cut filter with auto switch (ICR) N/A				
Pixel Size	N/A 12 um				
NETD	< 50 mk@F1.0@25 °C				
Shutter	Auto/Manual, 1 to 1/100000 s				
WDR	120 dB				
S/N	>56 dB				
Lens					
Focal Length	4mm	3.2 mm			
Iris	F1.6	F1.0			
Field of View (H)	72.9° 58.0°				
Field of View (V)	44.4° 42.5°				
Field of View (D)	89.8° 72°				
DORI					
DORI Distance					
(Detect)	90.0m(295.3ft)	N/A			
DORI Distance	26 0m/(119 1ft)				
(Observe)	36.0m(118.1ft) N/A				
DORI Distance	10.00 (50.15)				
(Recognize)	18.0m(59.1ft) N/A				
DORI Distance	0.0 (20.5%)				
(Identify)	9.0m(29.5ft) N/A				
Illuminator					
Wavelength	750 nm N/A				
Illumination					
Distance (IR)	40m N/A				
Light On/Off	Auto/Manual	NI/A			
Control	Auto/Manual N/A				
Video					
Frame Rate	4MP(2688*1520), Max 30fps	960P(1280*960), Max 30fps			
Video	IIItra 265 H 265 H 264 M IDEC				
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				

Palette N/A N/A Intelligent Smart Intrusion Prevention Smoke Detection Support Temperature Measurement Accuracy Temperature Range Temperature Range N/A Support Motion detection, Tampering alarm, Audio detection Motion detection, Tampering alarm, Audio detection Matermark, IP address filtering, Access policy, ARP protection, RI authentication, Alarm input, Alarm output Audio Audio Compression Myla White hr rainbov red hot. red hot. Rrianbov red hot. Ross line detection (support Cross line detection (support detection filtering) Loss line detection (support Cross line detection filtering) Audio Research Intrusion detection N/A Support Watermark, IP address filtering, Access policy, ARP protection, RI authentication, Alarm input, Alarm output Audio G.711U, G.711A	clockwise dical, fusion, arctic, mazarine, rain, puce, ot, iron oxide red, hot iron, rainbow 1, 2, rainbow 3, depict hot, ice hot, black hot, green hot, color 1, color 2 de detection, intrusion detection, enter area n, leave area detection (support false alarm and the classification of human and vehicle)				
White Balance Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2 N/A Digital Noise Reduction 2D/3D DNR Flip Normal, Flip vertical, Flip horizontal, 180°, 90° Clockwise, 90° Anti Defog Digital defog Palette N/A lava, m. white h. rainbov red hot. Intelligent Smart Intrusion Prevention Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) N/A Smoke Detection Support N/A Temperature ±8 °C (± detection) Measurement 48 °C (± detection) Accuracy ±8 °C (± detection) Temperature Selecta and 100 Respect and 100 Events Watermark, IP address filtering, Access policy, ARP protection, R1 authentication, Alarm input, Alarm output Audio G.711U, G.711A	edical, fusion, arctic, mazarine, rain, puce, ot, iron oxide red, hot iron, rainbow 1, 2, rainbow 3, depict hot, ice hot, black hot, green hot, color 1, color 2 de detection, intrusion detection, enter area n, leave area detection (support false alarm				
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Palette N/A N/A Intelligent Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) Smoke Detection Support N/A Temperature Measurement Accuracy Temperature Range Events Fire Detection N/A Support Motion detection, Tampering alarm, Audio detection N/A Watermark, IP address filtering, Access policy, ARP protection, RI authentication, Alarm input, Alarm output Audio Audio Compression White hr rainbov red hot. filtering detection (N/A) Selecta and 100 Events Fire Detection N/A Support Audio G.711U, G.711A	t, iron oxide red, hot iron, rainbow 1, 2, rainbow 3, depict hot, ice hot, black hot, green hot, color 1, color 2 de detection, intrusion detection, enter area n, leave area detection (support false alarm				
Smart Intrusion Prevention Cross line detection, intrusion detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) Smoke Detection Support N/A Temperature Measurement Accuracy Temperature Range Selecta and 100 Events Fire Detection Motion detection, Tampering alarm, Audio detection Motion detection, Rampenting, Access policy, ARP protection, Rampenting, Alarm output Audio Audio Audio Compression Cross line detection, intrusion detection (support detection filtering and the classification of human, detection filtering and the classification of human, detection filtering and the classification of human, and etection filtering alarm, and of the classification of human, and etection filtering and the classification of human, and etection filtering and the classification of human, and etection filtering and the classification of human, and etection and etection and and etection	n, leave area detection (support false alarm				
Smart Intrusion Prevention false alarm filtering and the classification of human, non-motor vehicle and vehicle) Smoke Detection Support N/A Temperature Measurement Accuracy Temperature Range Selecta and 100 Events Fire Detection Motion detection, Tampering alarm, Audio detection Motion detection, Alarm input, Alarm output Audio Compression false alarm filtering and the classification of human, detection filtering detection N/A Support Selecta and 100 Events Fire Detection Motion detection, Tampering alarm, Audio detection N/A General Function G.711U, G.711A	n, leave area detection (support false alarm				
Temperature Measurement Accuracy Temperature Range Selecta and 100 Events Fire Detection Motion detection, Tampering alarm, Audio detection Motion detection, Tampering alarm, Audio detection, RT authentication, Alarm input, Alarm output Audio Audio Compression Accession Accession Accession Accession Exercise 4 Exercise 5 Exercise 5 Exercise 6 Exercise 6 Exercise 6 Exercise 7					
Measurement Accuracy Temperature Range Selecta and 100 Events Fire Detection Motion detection, Tampering alarm, Audio detection Motion detection, Tampering alarm, Audio detection, RT authentication, Alarm input, Alarm output Audio Audio Compression #8°C (± 48°C (±					
Range and 100 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, RT authentication, Alarm input, Alarm output Audio Audio Compression G.711U, G.711A	± 8 °C (± 14.4 °F) or $\pm 8\%$ (whichever is greater)				
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, RT authentication, Alarm input, Alarm output Audio Audio Compression G.711U, G.711A	Selectable between -20 °C to 150 °C (-4 °F to 302 °F) and 100 °C to 550 °C (212 °F to 1022 °F)				
Basic Detection Motion detection, Tampering alarm, Audio detection N/A Watermark, IP address filtering, Access policy, ARP protection, RT authentication, Alarm input, Alarm output Audio Audio Compression G.711U, G.711A					
General Function Watermark, IP address filtering, Access policy, ARP protection, RT authentication, Alarm input, Alarm output Audio Audio Compression G.711U, G.711A					
Audio Compression Authentication, Alarm input, Alarm output G.711U, G.711A	Motion detection, Tampering alarm, Audio detection N/A				
Audio Compression G.711U, G.711A	Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output				
Compression G.711U, G.711A					
Audio Bitrate 128 Kbps	128 Kbps				
Two-way Audio Support	Support				
Suppression Support	Support				
Sampling Rate 16KHZ	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, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH	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 op					

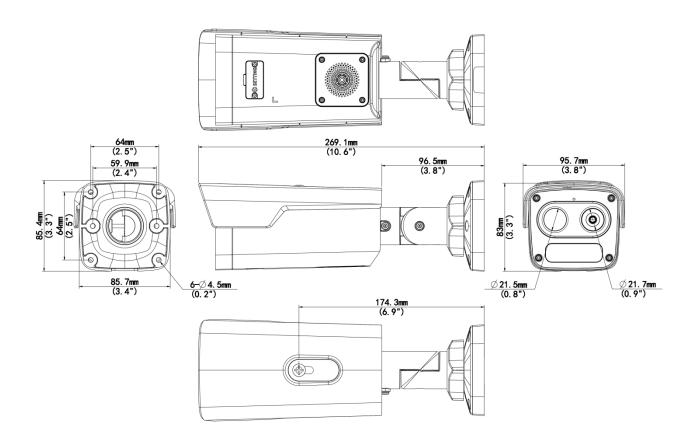


DATASHEET

GIIV					
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				
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					
	CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN				
EMC	50130-4:2011+A1:2014)				
	FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)				
C ()	CE LVD (EN IEC 62368-1:2020+A11:2020)				
Safety	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: ≤ 95% RH (non-condensing)				
Storage Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)				
Surge Protection	6 KV				
Reset Button	Support				
RTC	Support				
Web Client Language	22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese, Arabic, Slovak				
Live View					
Maximum	35				
Bitstream					
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-JB06-A-IN
Middle Bullet Junction Box(Elegant White)



TR-UP06-B-IN
Bullet Pole Mounting Bracket



TR-A01-IN
NPT 3/4'' Waterproof Cable Gland





TR-UP06-C-IN

Pole Mounting Bracket for Bullet Junction
Box Only



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 Rang e (Vehicles:4.0 × 1.4 m)	Detection Rang e (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 Ran ge (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 Range (Ve hicles:4.0 × 1.4 m)	SIP Detection Range (H umans:1.8 × 0.5 m)	Fire Detection Range (ta rget: 0.1x 0.1 m)	mperature detection (ta rget: 0.1m x 0.1m)
3.2mm	60m	30m	13m	8m
7mm	140m	70m	29m	20m
10mm	200m	100m	48m	30m

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