

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			
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 ℃				
Shutter	Auto/Manual, 1 to 1/100000 s				
WDR	120 dB				
S/N	>56 dB				
Lens					
ocal Length	4mm	3.2 mm			
ris	F1.6	F1.0			
Field of View (H)	74.9°	58.0°			
Field of View (V)	44.4°	42.5°			
Field of View (D)	97.4°	72.0°			
OORI					
OORI Distance (Detect)	90.0m(295.3ft)	N/A			
OORI Distance (Observe)	36.0m(118.1ft)	N/A			
OORI Distance (Recognize)	18.0m(59.1ft)	N/A			
OORI Distance (Identify)	9.0m(29.5ft)	N/A			
lluminator					
Wavelength	750 nm	N/A			
llumination Distance (IR)	40m	N/A			
ight On/Off Control	Auto/Manual	N/A			
/ideo					
Frame Rate	4MP(2688*1520), Max 30fps	960P(1280*960), Max 30fps			
/ideo Compression	Ultra 265, H.264, MJPEG				
/ideo Bit Rate	128 Kbps to 16 Mbps				
U-code	Support				
ROI	Support				
/ideo Stream	Triple streams				
OSD	Up to 8 OSDs				
Privacy Mask	Up to 8 areas (8 blacks/ 8 mosaics) N/A				
mage					
	Auto, Outdoor, Fine tune, Sodium lamp,				
White Balance	Locked, Auto2	N/A			
Digital Noise Reduction	2D/3D DNR				



Flip	Normal, Flip vertical, Flip horizontal, 180°, 90° Clo	ockwise, 90° Anti-clockwise				
Defog	Digital defog N/A					
Palette	lava, medical, fusion, arctic, mazarin puce, white hot, iron oxide red, hot in N/A rainbow 1, rainbow 2, rainbow 3, dep ice hot, black hot, red hot, green hot color 2					
Intelligent						
Smart Intrusion Prevention	Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)	Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human and vehicle)				
Smoke Detection	Support	N/A				
Temperature Measurement		±8 °C (±14.4 °F) or ±8% (whichever is greater)				
Accuracy		TO C (TTT-T 1) OI TO70 (WINCHEVEL 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)				
Detection distance for		60m				
vehicles (4 × 1.4 meters)	60m					
Detection distance for		20m				
personnel (1.8 × 0.5 meters)		30m				
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					
UMD (Ultra Motion Detection)	Support	N/A				
Detection distance for fire (0.1 × 0.1 meters)	N/A	13m				
Detection distance for temperature (0.1 × 0.1 meters)	N/A	8m				
Audio						
Audio Compression	G.711U, G.711A					
Audio Bitrate	128 Kbps					
Two-way Audio	Support					
Suppression	Support					
Sampling Rate	16KHZ					
Storage						
Edge Storage	MicroSD, up to 512 GB					
Network Storage	ANR					
Network						

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Compatible Integration	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				
Serial Port	1 × RS485				
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:				
EMC	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 85.4 mm (10.6" x 3.75" x 3.36")(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				
	22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French,				
Web Client Language	Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish,				
	Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese, Arabic, Slovak				
Live View					
Maximum Bitstream	35				
Maximum Bandwidth	50 Mbps				
OSD Font	Vector				
OSD Color	Support				
OSD Character Number	40				
Other					

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Corridor Mode	Support
Software Version	Q6202
Compliance	
NDAA Compliant	Support

DRI Description

The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

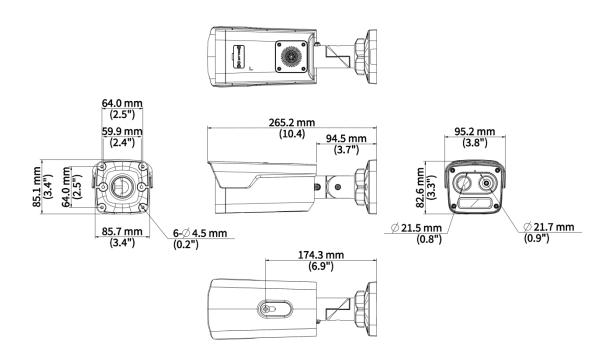
Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

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.

	Detection Ran	Detection Ran	Recognition R	Recognition R	Identification R	Identification Ran
Lens	ge (Vehicles:4.	ge (Humans:1.	ange (Vehicles	ange (Humans	ange (Vehicles	ge (Humans: 1.8
	$0 \times 1.4 \text{ m}$)	$8 \times 0.5 \mathrm{m})$: 4.0 × 1.4 m)	: 1.8 $ imes$ 0.5 m)	: 1.4 $ imes$ 4.0 m)	imes 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

Dimensions





Accessories

TR-JB06-A-IN

Middle Bullet Junction Box(Elegant White)



TR-UP06-C-IN

Pole Mounting Bracket for Bullet Junction

Box Only



TR-UP06-B-IN

Bullet Pole Mounting Bracket



TR-A01-IN

NPT 3/4" Waterproof Cable Gland



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