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, smoking 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: 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		

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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	1					
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	1					
DORI Distance						
(Detect)	90.0m(295.3ft)	N/A				
DORI Distance						
(Observe)	36.0m(118.1ft)	N/A				
DORI Distance						
(Recognize)	18.0m(59.1ft) N/A					
DORI Distance						
(Identify)	9.0m(29.5ft) N/A					
Illuminator	1					
Wavelength	750 nm	N/A				
Illumination						
Distance (IR)	40m	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				
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DATASHEET

Image

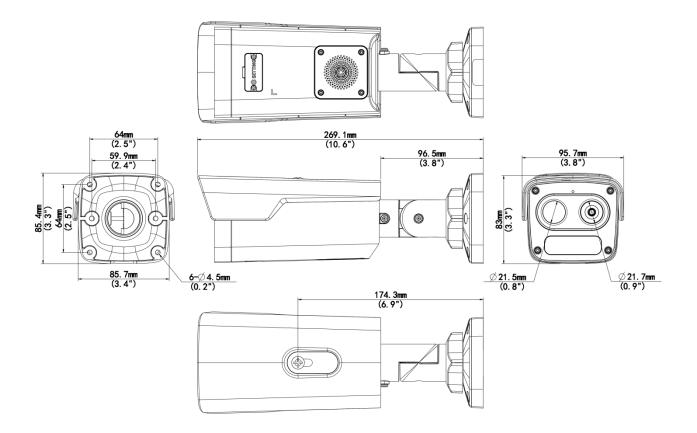
Image						
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2	N/A				
Digital Noise						
Reduction	2D/3D DNR					
Flip	Normal, Flip Vertical, Flip Horizontal, 180°, 90° Clockwise, 90° Anti-clockwise					
Defog	Digital Defog N/A					
Delog		lava, medical, fusion, arctic, mazarine, rain, puce,				
Palette		white hot, iron oxide red, hot iron, rainbow 1,				
	N/A	rainbow 2, rainbow 3, depict hot, ice hot, black hot,				
		red hot, green hot, color 1, color 2				
Intelligent						
Intelligent	Cross line detection, intrusion detection (support	Cross line detection, intrusion detection, enter area				
Smart Intrusion	false alarm filtering and the classification of human,	detection, leave area detection (support false alarm				
Prevention	non-motor vehicle and vehicle)					
Smoke Detection	Support	filtering and the classification of human and vehicle)				
	support	N/A				
Temperature						
Measurement	±8 °C (±14.4 °F) or ±8% (whichever is greater)					
Accuracy						
Temperature	Selectable between -20 $^\circ$ C to 150 $^\circ$ C (-4 $^\circ$ F to 302 $^\circ$ F) and	d 100 °C to 550 °C (212 °F to 1022 °F)				
Range						
Events	N/A					
Fire Detection		Support				
Basic Detection	Motion Detection, Tampering Alarm, Audio Detection					
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication					
	HTTP Authentication, Alarm Input, Alarm Output					
Audio						
Audio	G.711U, G.711A					
Compression						
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					
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Web Browser	Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+				
Interface	Tug-intequired live view. IL 101, Chrome 451, Therox 521, Luge 151				
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					
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)				
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	Mar. 10W				
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	40° C to 70° C (40° E to 158°E) Humidity < 05% BU (non-condensing)				
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	1 Language: English				
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	

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 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 detectio n (target: cigarette butt)	mperature detection (ta rget: 0.1m x 0.1m)
3.2mm	60m	30m	13m	2m	8m
7mm	140m	70m	29m	5m	20m
10mm	200m	100m	48m	7m	30m

Zhejiang Uniview Technologies Co., Ltd.

No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China (Zhejiang) Pilot Free Trade

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UNV

Zone, China

Email: overseasbusiness@uniview.com; globalsupport@uniview.com

http://www.uniview.com

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