

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 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

el 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 ℃						
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	(******)						
(Observe)	36.0m(118.1ft) N/A						
DORI Distance							
(Recognize)	18.0m(59.1ft) N/A						
DORI Distance	0.0=(20.5ft)						
(Identify)	9.0m(29.5ft) N/A						
Illuminator							
Wavelength	750 nm	N/A					
Illumination	40	N/A					
Distance (IR)	40m	N/A					
Light On/Off	Auto/Manual	N/A					
Control	Auto/Mailuat	N/A					
Video							
Frame Rate	4MP(2688*1520), Max 30fps	960P(1280*960), Max 30fps					
Video							
Compression	Ultra 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. Rhost part of the rainbov red hot. Ross line detection (support Cross line detection filtering and the classification of human, of filtering detection filtering and the classification of human, of filtering detection filtering and the classification of human, of the detection filtering and the classification of human, of the detection filtering and the classification of human, of the detection filtering and the classification of human, of the detection filtering and the classification of human, of the detection filtering and the classification of human, one more site of the classification of human, of the detection of the part of	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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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	L4.4 °F) or ±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						
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						
Two-way Audio Support						
Suppression Support						
Sampling Rate 16KHZ						
Storage						
Edge Storage Micro SD, up to 512 GB	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, 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						



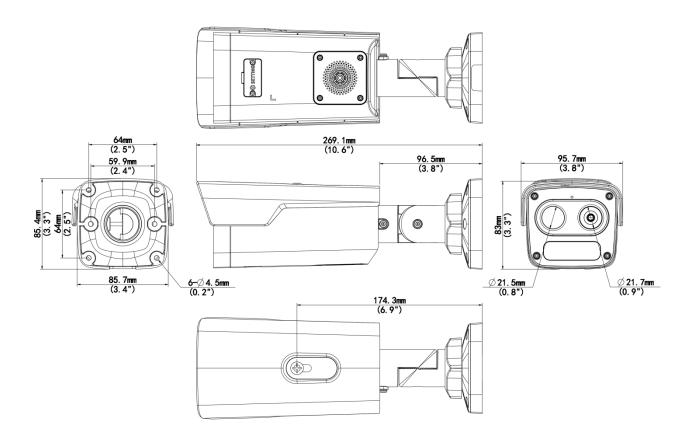
DATASHEET

CIIV						
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)					
Cafatri	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	1					
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 150 °E) Humidity (050/c DH (2000 condension)					
Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)					
Storage	40 °C to 70 °C (40 °E to 150 °E) Humidit « < 050/ PU (non condensing)					
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	11 anguaga English					
Language	1 Language: English					
Live View						
Maximum	35					
Bitstream						
Maximum	50 Mbps					
Bandwidth	Juliups					
OSD Font	Vector					
OSD Color	Support					
OSD Character	40					
Number	□					



GIIV			
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 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 Zone, China

Email: overseas business@uniview.com; global support@uniview.com

http://www.uniview.com

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