DATASHEET

Thermal & Optical Bi-spectrum Network Dome Camera

TIC3612SA-F2-4F3AC-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: 0.01 lux (F1.6, AGC ON) B/W: 0.005 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 ℃
Shutter	Auto/Manual,1 to 1/100000 s	
WDR	120 dB	
S/N	>56 dB	
Lens		
Focal Length	2.6 mm	2.1 mm
Iris	F1.6	F1.0
Field of View (H)	108.5°	88.8°
Field of View (V)	70.7°	63.7°
Field of View (D)	133.5°	109.2°
DORI		
DORI Distance (Detect)	58.5m(191.9ft)	N/A
DORI Distance (Observe)	23.4m(76.8ft)	N/A
DORI Distance (Recognize)	11.7m(38.4ft)	N/A
DORI Distance (Identify)	5.9m(19.2ft)	N/A
Illuminator		
Wavelength	750 nm	N/A

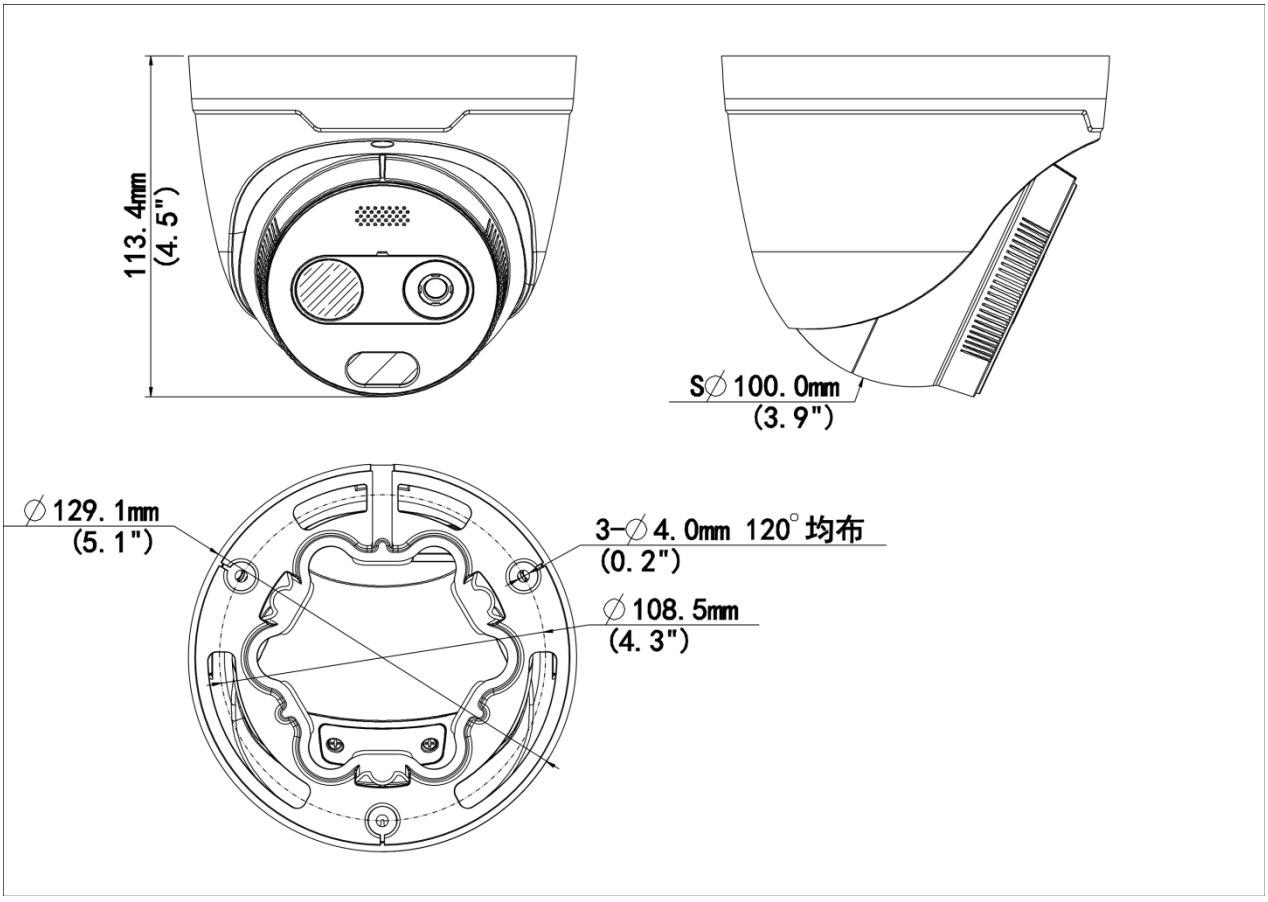
Illumination Distance (IR)	30m	N/A
Light On/Off Control	Auto/Manual	N/A
Video		
Frame Rate	4MP(2688*1520), Max 30fps	960P(1280*960), Max 30fps
Video Compression	Ultra 265, H.265, H.264, MJPEG	
Video Bit Rate	128 Kbps to 16 Mbps	
U-code	Support	
ROI	Support	
Video Stream	Triple Streams	
OSD	Up to 8 OSDs	
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, Flip Horizontal, 180°, 90° Clockwise, 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 ℃ (±14.4 ℉) or ±8% (whichever is greater)
Temperature Range		Selectable between -20 ℃ to 150 ℃ (-4 ℉ to 302 ℉) and 100 ℃ to 550 ℃ (212 ℉ to 1022 ℉)

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	

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	Φ129 x 114 mm(Φ5.08" x 4.49")(Φ x H)	
Weight	0.72kg(1.6lb)	
Working Environment	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉), Humidity: ≤ 95% RH (non-condensing)	
Storage Environment	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉), 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	
Corridor Mode	Support
Software Version	Q6202

Dimensions



Accessories

TR-JB03-H-IN

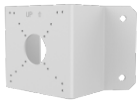
Junction Box for Metal Turret Camera (Support wiring from behind)

TR-JB07/WM03-F-IN

Wall Mounting Assembling Bracket with Back Hole for 3 Inch Hemisphere

TR-A01-IN

NPT 3/4'' Waterproof Cable Gland

TR-UP06-IN	TR-WM03-B-IN	TR-UC08-C
Universal Pole Mounting Bracket	Wall Mounting Assembling Bracket for 3 Inch Hemisphere	Bullet&Dome Corner Mounting Bracket
		

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 Range (Vehicles: 4.0 × 1.4 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
2.1mm	207m	83m	52m	21m	30m	12m
3mm	296m	119m	74m	30m	49m	17m
7mm	690m	277m	173m	69m	99m	40m

Smart Function Table(Thermal)

Lens	SIP Detection Range (Vehicles:4.0 × 1.4 m)	SIP Detection Range (Humans:1.8 × 0.5 m)	Fire Detection Range (target: 0.1x 0.1 m)	Smoking detection (target: cigarette butt)	Temperature detection (target: 0.1m x 0.1m)
2.1mm	42m	21m	9m	1m	3.5m
3mm	60m	30m	13m	2m	8m
7mm	140m	70m	29m	5m	20m

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