

# Thermal & Optical Bispectrum Network Dome Camera

#### TIC3612SA







#### **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

1



- ullet DC12V $\pm$ 25% or PoE power supply
- Alarm 2 in and 2 out, Audio 1 in and 1 out, Micro SD, up to 512 GB

## **Specifications**

Camera	Description		
Sensor—Optical	1/2.8" CMOS		
Min. Illumination—Optical	TIC3612SA-F2-4F3AC-I1:Colour: 0.01 lux (F2.0, AGC ON)  B/W: 0.005 lux(F2.0,AGC ON)  0 lux with IR  TIC3612SA-F7-4F6AC-I1/TIC3612SA-F3-4F4AC-I1:Colour: 0.003 lux (F1.6, AGC ON)  B/W: 0.002lux(F1.6,AGC ON)  0 lux with IR		
Day/Night—Optical	IR-cut filter with auto switch (ICR)		
Sensor—Thermal	Vanadium Oxide Uncooled Focal Plane Arrays		
Original Resolution—Thermal	256*192		
NETD	< 50 mk @ F1.0 @ 25 ℃		
Shutter	Auto/Manual, 1 ~ 1/100000s		
WDR	120dB		
S/N	>56dB		
Lens	Description		
Lens Type-Optical	TIC3612SA-F2-4F3AC-I1:2.6 mm  TIC3612SA-F7-4F6AC-I1:6.0 mm  TIC3612SA-F3-4F4AC-I1:4mm		
Iris—Optical	F1.6		
Lens Type-Thermal	TIC3612SA-F2-4F3AC-I1:2.1 mm  TIC3612SA-F7-4F6AC-I1:7.0 mm  TIC3612SA-F3-4F4AC-I1:3mm		
DORI	Description		
DORI Distance (Detect) — Optical	TIC3612SA-F2-4F3AC-I1:58.5m(191.9ft) TIC3612SA-F7-4F6AC-I1:135.0m(442.9ft) TIC3612SA-F3-4F4AC-I1:90.0m(295.3ft)		



Optical	TIC3612SA-F7-4F6AC-I1:54.0m(177.2ft)		
	TIC3612SA-F3-4F4AC-I1:36.0m(118.1ft)		
	TIC3612SA-F2-4F3AC-I1:11.7m(38.4ft)		
DORI Distance (Recognize) — Optical	TIC3612SA-F7-4F6AC-I1:27.0m(88.6ft)		
Option	TIC3612SA-F3-4F4AC-I1:18.0m(59.1ft)		
DORI Distance(Identify)— Optical	TIC3612SA-F2-4F3AC-I1:5.9m(19.2ft)		
	TIC3612SA-F7-4F6AC-I1:13.5m(44.3ft)		
·	TIC3612SA-F3-4F4AC-I1:9.0m(29.5ft)		
Illuminator	Description		
IR Range-Optical	30m		
Light On/Off Control	Auto/Manual		
Video	Description		
Video Compression	Ultra 265; H.265; H.264; MJPEG		
Video Resolution—Optical	4MP(2688*1520), Max 30fps		
Video Resolution—Thermal	960P(1280*960), Max 30fps		
Video Bit Rate	128 Kbps ~ 16 Mbps		
U-code	Support		
ROI	Up to 8 areas		
Video Stream	Triple Streams		
OSD	Up to 8 OSDs		
Privacy Mask	Up to 8 areas (8 blacks/ 8 mosaics)		
Image	Description		
White Balance	Auto; Outdoor; Fine Tune; Sodium Lamp; Locked; Auto2		
Digital Noise Reduction	2D/3D DNR		
Flip	Normal; Flip Vertical; Flip Horizontal; 180°; 90°Clockwise; 90°Anti-clockwise		
Defog	Digital Defog		
Palette—Thermal	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; pu		
Intelligent	Description		
Smart Intrusion Prevention	Thermal or Optical channel: Support False Alarm Filtering: Line Crossing Detection, Intrusion Detection, Enter Area Detection, Leave Area Detection		
Smoke and Fire Detection	Optical channel support detecting smoke directly or helping in double-check the fire alarm		



Temperature Measurement Accur	$\pm 8^{\circ}$ C ( $\pm 14.4^{\circ}$ F) or $\pm 8\%$ (whichever is greater)	
Temperature Range	Selectable between -20°C ~ 150°C (-4°F ~ 302°F) and 100°C ~ 550°C (212°F ~ 1022°F)	
Temperature Detection—Thermal	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	Thermal channel supports the detection of smoking behavior in the environment	
Events	Description	
Fire Detection	Thermal channel supports the detection of fire point in the environment	
Basic Detection—Optical	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	Description	
Audio Compression	G.711U; G.711A	
Audio Bitrate	128 Kbps	
Two-way Audio	Support	
Suppression	Support	
Sampling Rate	16KHZ	
Storage	Description	
Edge Storage	Micro SD, up to 512 GB	
Network Storage	ANR	
Network	Description	
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	
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator	
Client	EZStation; EZLive; EZView	
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above	
Interface	Description	
Audio I/O	1/1	
Alarm I/O	2/2	
Serial Port	1 channel RS485 interface	

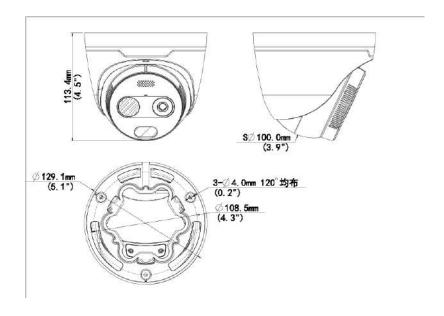




Built-in Mic	Support	
Built-in Speaker	Support	
Network	1 x RJ45 10M/100M Base-TX Ethernet	
Video Output	Supported (Thermal module)	
General	Description	
Power	DC12V(±25%), PoE(IEEE802.3af)	
Power Consumption	Max 12W	
Power Interface	Ø 5.5 mm coaxial power plug	
Dimensions	Φ129mm*114mm	
Weight	0.72kg(1.6lb)	
Working Environment	-40 °C ~ 70 °C (-40 °F ~ 158 °F), Humidity: ≤95% RH (non-condensing)	
Surge Protection	6KV	
Certification	Description	
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)	



#### **Dimensions**



### **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 $ imes$ 0.5 m)	Recognition Range (Vehicles: $4.0 \times 1.4$
2.1mm	207m	83m	52m
3mm	296m	119m	74m
7mm	690m	277m	173m

## Smart Function Table(Thermal)

Lens	SIP Detection Range (Vehicles:4.0 $ imes$ 1.4 m)	SIP Detection Range (Humans:1.8 $ imes$ 0.5 m)	Fire Detection Range (target: 0.
2.1mm	42m	21m	9m
3mm	60m	30m	13m
7mm	140m	70m	29m

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