## UNV

## 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 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

Channel	Optical	Thermal
---------	---------	---------

## UNV

## DATASHEET

Camera					
Original					
Resolution	N/A 256 × 192				
Sensor	1/2.8" CMOS	Vanadium oxide uncooled focal plane arrays			
	Colour: 0.01 lux (F1.6, AGC ON)				
Min. Illumination	B/W: 0.005 lux(F1.6,AGC ON)	N/A			
	0 lux with IR				
Day/Night	IR-cut filter with auto switch (ICR)	R-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	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)	iew (D) 133.5° 109.2°				
DORI					
DORI Distance	58.5m(191.9ft)	N/A			
(Detect)	58.5m(191.9ft)				
DORI Distance	23.4m(76.8ft)	N/A			
(Observe)	23.41(10.61)				
DORI Distance	11.7m(38.4ft)	N/A			
(Recognize)	11.111(30.41)				
DORI Distance	5.9m(19.2ft)	N/A			
(Identify)	5.5II(13.2I() IV/A				
Illuminator	1				
Wavelength	ngth 750 nm N/A				
Illumination	30m	N/A			
Distance (IR)		,			
Light On/Off	Auto/Manual	N/A			
Control	· ·				
Video					
Frame Rate	4MP(2688*1520), Max 30fps	960P(1280*960), Max 30fps			
Video	Ultra 265, H.265, H.264, MJPEG				
Compression					
Video Bit Rate	128 Kbps to 16 Mbps				
U-code	Support				
ROI					
Video Stream					
OSD	Up to 8 OSDs				

UNV DATASHEET					
Privacy Mask	Up to 8 areas (8 blacks/ 8 mosaics)	N/A			
Image					
White Balance	Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2N/A				
Digital Noise Reduction	2D/3D DNR				
Flip	Normal, Flip vertical, Flip horizontal, 180°, 90° Clockwis	e, 90° Anti-clockwise			
Defog	Digital defog N/A				
Palette	N/A	lava, medical, arctic, mazarine, fusion, rain, puce, white hot, iron oxide red, hot iron, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, red hot, green hot, color 1, color 2			
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, enter area detection, leave area detection (support false alarm filtering and the classification of human and vehicle)			
Smoke Detection	Support	N/A			
Temperature Measurement Accuracy		±8 °C (±14.4 °F) or ±8% (whichever is greater)			
Temperature Range		Selectable between -20 $^\circ$ C to 150 $^\circ$ C (-4 $^\circ$ F to 302 $^\circ$ F) and 100 $^\circ$ C to 550 $^\circ$ C (212 $^\circ$ F to 1022 $^\circ$ F)			
Events					
Fire Detection	N/A	Support			
Basic Detection	Motion detection, Tampering alarm, Audio detection	N/A			
General Function	Unction 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	er/Host Up to 32 users. 3 user levels: administrator, common user and operator				

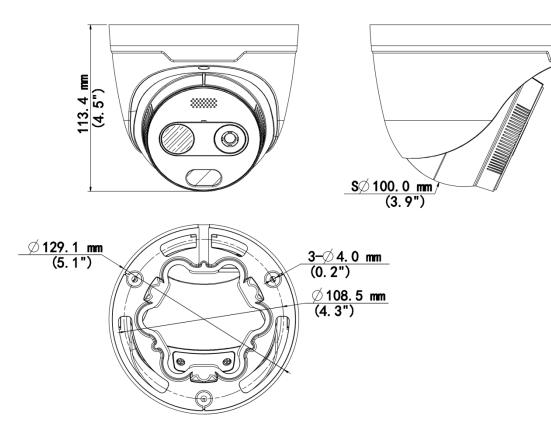
# unv

## DATASHEET

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 Outpu	t: 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+A	1: 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)				
	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	J); 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 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (n	on-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	1 Languaga, English				
Language	1 Language: English				
Live View					
Maximum	25				
Bitstream	35				
Maximum	50 Mbps				
Bandwidth	20 PUD 20				
OSD Font	Vector				
OSD Color	Support				
OSD Character	er 40				
Number					

UNV		DATASHEET	
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





### **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)
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 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)	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



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

http://www.uniview.com

©2024-2025 Zhejiang Uniview Technologies Co., Ltd. All rights reserved.

\*Product specifications and availability are subject to change without notice.

\*Despite our best efforts, technical or typographical errors may exist in this document. Uniview cannot be held responsible for any such errors and reserves the right to change the contents of this document without prior notice.