

4MP Thermal & Optical Dual-spectrum Starlight Intelligent PTZ Dome Camera

TIC6831ER-F50-4X38P



Key Features

















Optics

- Thermal & Optical dual-spectrum image, dual channels with one IP, adaptable to more various scenes
- Passive infrared thermal imaging, meet the requirement of concealed monitoring and not affected by bad weather condition such as fog, smoke, rain, snow and night etc.
- Starlight illumination
- Smart IR, up to 150m (492ft) IR distance
- Gyroscope stabilization for stable picture
- 2D/3D DNR (Digital Noise Reduction)

Smart

Smart linkage: thermal channel support fire detection, optical channel can link to the fire position and zoom in, more accurate to
judge fire situation



Perimeter protection based on deep learning algorithm: cross line, enter area, leave area, intrusion, support smart tracking

Compression

- 4 Megapixel optical image
- Ultra265, H.264, MJPEG
- Triple streams
- Customize OSD

Network

ONVIF Conformance

Structure

- AC/DC24V or PoE++(IEEE 802.3bt) power supply
- Wide voltage range of ±25%
- Support Wiper
- Alarm 2 in and 1 out, Audio 1 in and 1 out
- IP66

Specifications

	TIC6831ER-F50-4X38P					
Optical Module	1100001211100					
Image sensor	1/1.8", progressive scan, 4.0 megapixel, CMOS					
Lens	5.7 ~ 216.6mm, AF automatic focusing and motorized zoom lens					
Digital Zoom	16					
Optical Zoom	38					
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)	
	5.7	97.5(319.9ft)	39(128.0ft)	19.5(64.0ft)	9.8(32.0ft)	
	216.6	3030(9940.9ft)	1212(3976.4ft)	606(1988.2ft)	303(994.1ft)	
Field of View(H)	58.5° ~ 2.1°					
Field of View(V)	35.0° ~ 1.2°					
Field of View(D)	72.0° ~ 2.5°					
Shutter	Auto/Manual, shutter time: 1~1/100000 s					
Minimum Illumination	Colour: 0.0005 Lux (F1.3, AGC ON) 0 Lux with IR					
Iris	Auto/Manual; F1.3 ~ F4.6					
Day/Night	IR-cut filter with auto switch (ICR)					
Digital noise reduction	2D/3D DNR					
S/N	>55dB					
IR Range	Up to 150m (492ft)					



DATASHEET

GIIV				
Defog	Optical Defog & Digital Defog			
WDR	120dB			
Thermal Module				
Sensor type	Vanadium Oxide Uncooled Focal Plane Arrays			
Max. Resolution	384*288			
Video format	720P(1280*720), Max 25fps			
Pixel size	17μm			
Response waveband	8~14μm			
NETD	- ≤50mk			
Lens(focal length)	50mm			
Angle of View (H)	7.5°			
Angle of View (V)	5.8°			
Angle of View (O)	9.1°			
Focus	Auto/Semiautomatic/Manual			
Palette	Up to 20 palettes of optional color, including: 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			
Detection Distance	Vehicle: 3480m (target size 4mx1.4m); human: 1395m (target size 1.8mx0.5m);			
Recognition Distance	Vehicle: 870m (target size: 4mx1.4m); human: 349m (target size: 1.8mx0.5m);			
Identification Distance	Vehicle: 497m (target size: 4mx1.4m); human: 199m (target size: 1.8mx0.5m);			
Video				
Compression	Ultra265, H.264, MJPEG			
H.264 code profile	Baseline profile, Main Profile, High Profile			
Frame Rate	Main Stream: 4MP (2688×1520): Max.60fps; Sub Stream: 2MP (1920×1080): Max.60fps; Third Stream: D1(720 x 576): Max.60fps;			
HLC	Supported			
BLC	Supported			
OSD	Up to 8 OSDs			
ROI	Up to 8 areas			
Privacy Mask	Up to 24 areas			
Motion Detection	Up to 4 areas			
Smart				
Fire Detection (thermal module)	Support the detection of fire point in the environment and link the optical camera zoom tracking and alarm			
Behavior Detection (thermal module)	Support false alarm filtering Cross Line detection, Intrusion detection, Enter Area detection, Leave Area detection			
Exception Detection And Statistics	Object Removed, Object Left Behind, Auto-tracking			
(optical module) General Function	Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication			
Audio				
Audio Compression	G.711U, G.711A			
Two-way audio	Supported			
Suppression	Supported			
Sampling Rate	8 KHZ			
F 0 1.44	I .			

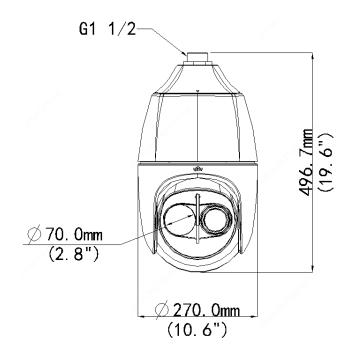




Storage						
Edge Storage	Micro SD, up to 256GB					
Network Storage	ANR,NAS(NFS)					
Network						
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP					
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API					
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above					
Pan & Tilt						
Pan Range	360° (endless)					
	0.1°/s ~ 180°/s					
Pan Speed	Preset speed: 300°/s					
Tilt Range	-15° ~ 90° (auto reverse)					
T'll Consid	0.1° ~ 180°/s					
Tilt Speed	Preset speed: 240°/s					
Number of Presets	1024					
Patrol	Preset patrol, route patrol, recorded patrol					
Home Position	Supported					
Interface						
	Audio cable					
Audio I/O	Input: impedance 1kΩ; amplitude 2V [p-p]					
	Output: impedance 600Ω; amplitude 2V [p-p]					
Alarm I/O	2/1					
Serial Port	1 RS485					
Video Output	N/A					
Network	1 RJ45 10M / 100M Base-TX Ethernet					
General						
_	AC 24V, DC 24V ±25%, PoE++ (IEEE 802.3bt) (IEEE802.3bt switch required)					
Power	Power consumption: Max 57W					
Dimensions (Φ × H)	Φ270mm × 496.7mm (Φ10.6" × 19.6")					
Weight	10.22kg (22.53lb)					
Working Environment	-40° C $^{\sim}$ 70° C (-40° F $^{\sim}$ 158° F), Humidity: \leq 95% RH (non-condensing)					
Storage Environment	-40° C $^{\circ}$ C (-40° F $^{\circ}$ 158° F), Humidity: \leq 95% RH (non-condensing)					
Surge protection	6KV					
Vandal Resistant	N/A					
Ingress Protection	IP66					

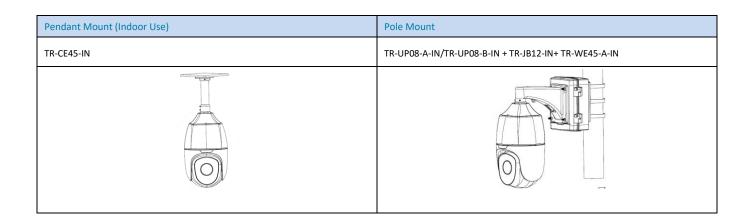


Dimensions



Accessories





unv		DATASHEET
Corner Mount	1	
TR-UC08-A-IN/ TR-UC08-B-IN+ TR-JB12-IN+ TR-WE45-A-IN	/	
	/	

Zhejiang Uniview Technologies Co., Ltd.

Building No.10, Wanlun Science Park, Jiangling Road 88, Binjiang District, Hangzhou, Zhejiang, China (310051)

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

http://www.uniview.com

 $\hbox{@2016-2022 Zhejiang Uniview Technologies Co., Ltd. All rights reserved.}$

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