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TVT

Secure The World With You

TD-5433E1-VT2-A

Thermal Network Bullet Camera



RoHS CE FC PoE ONVIF

Thermal:

- Resolution：384 × 288
- 12μm，NETD: < 35mK(@25℃, F#=1.0)
- Temperature range：-20℃~150℃
- Multi-palette: white hot, black hot, rainbow, iron oxide red, etc.
- Intelligent analytics: region intrusion/entrance/exiting detection (human/vehicle classification), line crossing detection (human/vehicle classification)
- Sound and light warning, temperature exception alarm, fire detection
- Supports temperature overlay on video stream

Optical:

- 5MP (2596 ×1944) @30fps
- ICR auto switch, true day/night vision
- 50~70m IR night view distance
- 3D DNR, HWDR (120dB), HLC, BLC, Smart IR, distortion image correction, ROI, etc.
- Intelligent analytics: region intrusion/entrance/exiting detection (human/motor vehicle/non-motor vehicle classification), line crossing detection (human/motor vehicle/non-motor vehicle classification), target counting by line/area (human/vehicle/non-motor vehicle classification), face detection, face capture, illegal parking detection, loitering detection, abandoned/missing object detection

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Specifications

Model	TD-5433E1 –VT2-A		
Thermal Module			
Detector Type	12μm 384×288 Uncooled Infrared Focal Plane Array		
Response Waveband	8μm-14μm		
NETD	≤ 35mK (@25°C, F#=1.0)		
Lens	9.1mm@F1.0	19mm@F1.0	25mm@F1.0
Field of View (H×V)	28.4° ×21.5°	13.8° ×10.4°	10.5° ×7.9°
Color Palettes	Black hot, white hot, rainbow, iron oxide red, etc.		
DRI Distance Human (0.75m)	D: 379m (1243ft) R: 95m (311ft) I: 47m (154ft)	D: 792m (2598ft) R: 198m (650ft) I: 99m (323ft)	D: 1042m (3418ft) R: 260m (853ft) I: 130m (426ft)
DRI Distance Vehicle (2.3m)	D: 1163m (3815ft) R: 291m (954ft) I: 145m (475ft)	D: 2428m (7966ft) R: 607m (1991ft) I: 303m (994ft)	D: 3194m (10479ft) R: 799m (2621ft) I: 399m (1309ft)
Visible Light Module			
Image Sensor	1/2.7"CMOS		
Image Size	2592×1944		
Electronic Shutter	1/3s ~ 1/100000s		
Iris Type	Fixed-Iris		
Min. Illumination	Color: 0.03 lux@F2.0, AGC ON; B&W: 0 lux with IR		
Lens	8mm@F2.0	16mm@F2.0	16mm@F2.0
Field of View (H×V)	38°×27.5°	19.8°×14.3°	19.8°×14.3°
WDR	120dB		
BLC	Yes		
HLC	Yes		
Defog	Yes		
Digital NR	2D/3D NR		
Image			
Video Compression	H.265/H.264/MJPEG		
H.264 Compression Standard	Baseline Profile / Main Profile / High Profile		
Bit Rate Type	VBR/CBR		
Bit Rate	64Kbps ~ 8Mbps		
Resolution	Optical: 5MP (2592×1944), 4MP (2592×1520) ,2K (2560×1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), D1, CIF, 480×240		
	Thermal: 384×288 (the resolution of output image is 720P/D1/CIF/480×240)		
Main Stream	Optical: 60Hz: 5MP/4MP/2K/3MP/1080P/720P (1~30fps); 50Hz: 5MP/4MP/2K/3MP/1080P/720P (1~25fps)		
	Thermal: 720P/D1/CIF/480×240 (1~25fps)		
Sub Stream	Optical: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps)		
	Thermal: D1/CIF/480×240 (1~25fps)		
Third Stream	Optical: 60Hz: D1/CIF/480×240 (1~30fps); 50Hz: D1/CIF/480×240 (1~25fps)		
	Thermal: D1/CIF/480×240 (1~25fps)		
Dual Image Fusion	Yes		
Temperature Overlay	Thermal image temperature overlay		
Audio Compression	G711A/U		
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, NR, etc., adjustable through client software or web browser		
ROI	8 regions, each ROI to be configured separately		

*All pictures and specifications are for reference only and are subject to change without prior notice.

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Interface	
Network	RJ45
Video Output	No
Audio	1CH audio input; 1CH audio output; 1CH built-in speaker
Storage	Built-in micro SD card slot, up to 256GB
Reset	Yes
RS485	Yes
Alarm	4CH alarm input; 4 CH alarm output
Function	
Temperature Measurement	Temperature Range：-20℃~150℃ (-4°F~302°F)
	Temperature Accuracy：±8℃ or ± 8%
Temperature Alarm	10 rules in total (Point up to 10; Line: 2 recommended; Area: 2 recommended)
	Over temperature alarm, low temperature alarm;
Fire Detection	Dynamic fire detection, up to 10 fire points detectable
Remote Monitoring	Web browser / NVMS/NVR/Mobile APP
Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission
Network Protocol	TCP, UDP, IPv4, IPv6, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP, SNMP, 802.1x, UPnP, HTTPS, Qos
Interface Protocol	ONVIF
Storage	Network remote storage; micro SD card storage
Smart Alarm	Motion detection, sensor alarm, SD card error, SD card full, IP address conflict, cable disconnection
Intelligent Analytics	Optical: region intrusion/entrance/exiting detection/line crossing detection (human/motor vehicle/non-motor vehicle classification), target counting by line/area (human/motor vehicle/non-motor vehicle classification), face detection, illegal parking detection, loitering detection, abandoned/missing object detection Thermal: fire detection, temperature exception alarm, region intrusion/entrance/exiting detection/line crossing detection (human/motor vehicle classification) AI function can be enabled simultaneously on thermal and optical channels
Light and Sound Alarm	White light flashing alarm and sound alarm supported
General Function	Watermark, IP address filtering, video mask, heartbeat, password protection, image distortion correction
PoE	Yes，IEEE802.3af, class0
IR Distance	50~70m
Ingress Protection	IP66
Anti-Corrosion Protection	Anti-Corrosion Protection
Others	
Power	DC12V/PoE
Power Consumption	< 9W
Working Environment	- 30°~60°C (-22°F~140°F); Humidity: < 95% (non-condensing)
Dimensions (mm)	278.3 × 100.2× 88.7
Weight (net)	Approx. 1.18KG
Installation	Wall mounting; ceiling mounting
Certificate	CE, FCC
Environmental Protection	RoHS2.0, WEEE (2012/19/EU), REACH (EC 1907/2006)

*The above-mentioned DRI distance is for reference only and the performance may vary according to different environments. The optimal human 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.

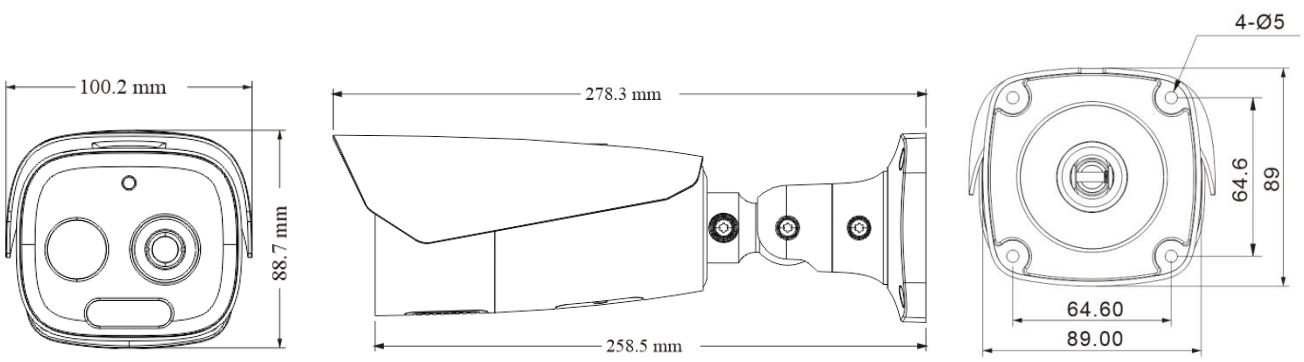
Available Model

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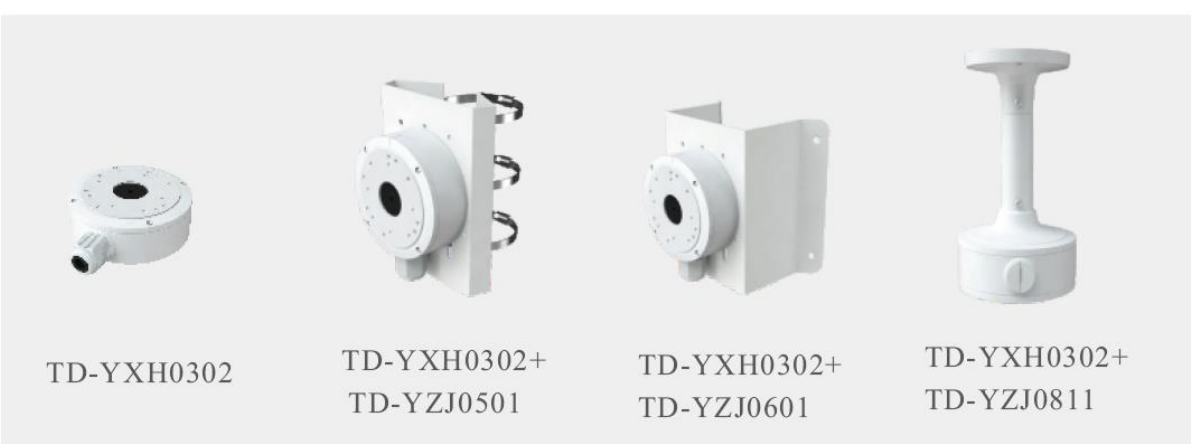
Available Model	TD-5433E1-VT2-A(9/PE)	9.1mm lens
	TD-5433E1- VT2-A (19/PE)	19mm lens
	TD-5433E1- VT2-A (25/PE)	25mm lens

Dimensions



Available Accessories

Optional:



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