

THERMAL CAMERA

## VN-TB50

Thermal Network Bullet Camera



### Thermal:

- 256 × 192 uncooled detector
- 17um, NETD: <35mK(@25°C, F#=1.0)
- 12.3mm thermal imaging lens
- Temperature accuracy: ±0.5°C@(30°C~45°C);  
±0.3°C@(30°C~45°C, with blackbody)
- ACB, DPC, 3D DNR, DDE
- Multi-palette: white, black, pseudo-color
- Temperature exception alarm

### Visible Light:

- 5MP (2592 × 1944) @30 fps
- 1/2.7" BSI+ NIR progressive CMOS image
- Min. Illumination: Color : 0.0125 lux @F2.0; AGC ON  
W/B: 0.008 lux @F2.0; AGC ON
- 8mm visible light lens
- 3D DNR, true WDR(120dB), HLC, BLC
- Built-in white light and loudspeaker
- Capturing 20 faces simultaneously

## SPECIFICATIONS

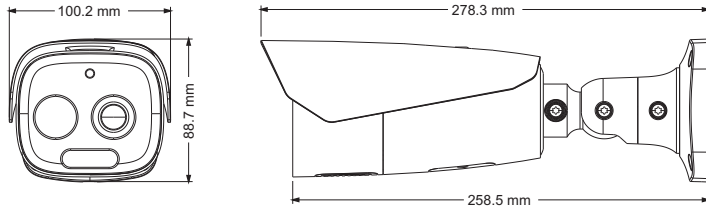
Model Specifications	VN-TB50
<b>Thermal Module</b>	
Detector Type	17um 256×192 Vanadium oxide uncooled focal plane detector
NETD	<35mK(@25°C, F#=1.0)
IRIS Type	Fixed Iris
Lens	12.3mm@F1.0
Field of View	29.7°×22.5°(H×V)
Min. Focusing Distance	1.34 m
Temperature Measuring Distance	2-6 m
Color Palettes	Black, White, Pseudo-color
<b>Visible Light Module</b>	
Image Sensor	1/2.7" CMOS
Image Size	2592 × 1944
Electronic Shutter	1/30 s ~ 1/100000 s
Iris Type	Fixed Iris
Min. Illumination	0.0125 lux@F2.0, AGC ON; 0 lux with IR 0.0045 lux@F1.2, AGC ON; 0 lux with IR
Lens	8mm@F2.0
Field of View	38°×27.5°(H×V)
Wide Dynamic Range	120dB
BLC	Yes
HLC	Yes
Defog	Yes
Digital NR	2D/3D DNR
<b>Image</b>	
Video Compression	H.265 / H.264
H.264 Compression Standard	Baseline Profile / Main Profile / High Profile
Resolution	Thermal : 704 × 576
	Visible Light: 5MP ( 2592 × 1944 ), 4MP ( 2592 × 1520 ), 2K ( 2560 × 1440 ), 3MP ( 2304 × 1296 ), 1080P ( 1920 × 1080 ), 720P ( 1280 × 720 ), D1, CIF, 480 × 240
Main Stream	Thermal : 60Hz: 704 × 480 (1~30fps); 50Hz: 704 × 576 (1~25fps)
	Visible Light: 60Hz: 5MP/4MP/2K/3MP/1080P/720P (1~30fps); 50Hz: 5MP/4MP/2K/3MP/1080P/720P (1~25fps)
Sub Stream	Visible Light: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps)
Third Stream	Visible Light: 60Hz: D1/CIF/480 × 240(1~30fps); 50Hz: D1/CIF/480 × 240(1~25fps)
Image Settings	ROI, Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustable through client software or web browser
Video & Data Overlay	The thermal image can be overlaid on visible light image The temperature can be overlaid on visible light image
Audio Compression	G711A/U
ROI	8 regions; each ROI to be configured separately

<b>Interfaces</b>	
Network	RJ45
Video Output	No
Audio	1CH audio input; 1CH built-in speaker
Storage	Built-in micro SD card slot; up to 256GB
Reset	Yes
RS 485	Yes
Alarm	1CH alarm input; 1CH alarm output
<b>Functions</b>	
Temperature Measurement	±0.5°C@(30°C~45°C, without blackbody) ±0.3°C@(30°C~45°C, with blackbody) A maximum of 20 people can be measured simultaneously
Temperature Alarm	High temperature alarm, low temperature alarm
Remote Monitoring	Web browsing, CMS remote control
Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission
Network Protocol	IPv4, IPv6, UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP, SNMP, 802.1x, UPnP, HTTP, HTTPS, QoS
Interface Protocol	ONVIF
Storage	Network remote storage; micro SD card storage
Smart Alarm	Motion detection, SD card error, SD card full, IP address conflict, Cable connection
Intelligent Analytics	Region intrusion/entrance/exiting (human/vehicle classification), line crossing (human/vehicle classification), scene change detection, missing/abandoned object detection, line crossing people/vehicle counting, face detection, face capture
Sound&Light Warning	Yes
General Function	Watermark, IP address filtering, video mask, heartbeat, password protection, non-photosensitive switch, image distortion correction
PoE	Yes, IEEE802.3af, class0
IR Distance	20 ~ 30 m
Protection Grade	IP66
<b>Others</b>	
Power Supply	DC12V / PoE
Power Consumption	< 9W
Operating Environment	Humidity: less than 95% (non-condensing) Temperature Screening Mode: 16 °C ~ 35 °C (without wind)
Certificate	CE, FCC
Environment Protection	Complies with Directive EU RoHS, WEEE(2012/19/EU), directive 94/62/EC and REACH(EC1907/2006)
Dimensions ( mm )	278.3 × 100.2 × 88.7
Weight ( net )	Approx. 1.18KG
Installation	Ceiling mounting; Wall mounting

## AVAILABLE MODEL

Available Model	VN-TB50
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### DIMENSIONS



### AVAILABLE ACCESSORIES



Adapter Block



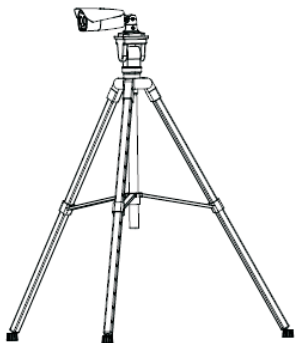
Tripod



Blackbody

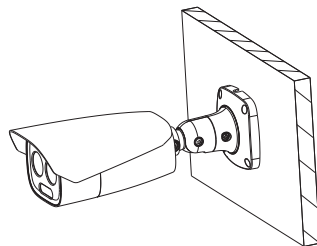
### Installation

Stand-mounted



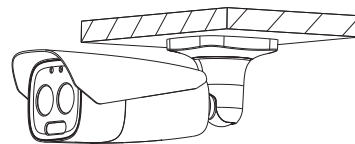
(Tripod + Adapter Block)

Wall-mounted



(its own bracket)

Ceiling-mounted



(its own bracket)