



## S Series

# TB9331-E (19 mm)

Thermal Bullet Network Camera



## Technical Specifications

### System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	512 MB

### Camera Specifications

Image Sensor	Uncooled VOx infrared detector
Max. Resolution	Effective pixels: 720x480 Image scale up to: 960x640
Lens Type	Fixed-focal (Thermal lens)
Focal Length	f = 19 mm
Aperture	F1.0
Iris Type	Fixed iris
Field of View	35.7° (Horizontal) 24.2° (Vertical) 42.3° (Diagonal)
Pan/Tilt/Zoom Functionalities	ePTZ: 20x digital zoom (4x on IE plug-in, 5x built-in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card (128GB capacity supported) and recording to network-attached storage (NAS)
Pixel Size	17 μm
Spectral Range	8 ~ 14 μm
Sensitivity	NETD < 50 mk

### Video

Compression	H.265, H.264, MJPEG
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Maximum Frame Rate	30 fps @ 720x480
Maximum Streams	4 simultaneous streams
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream II
Image Settings	<p>General settings video title and time stamp overlay, video orientation (flip, mirror, rotation)</p> <p>Thermal settings white balance, image adjustment (brightness, contrast, sharpness)</p> <p>Privacy mask Scheduled profile settings</p>

Audio	
Audio Capability	Two-way audio (full duplex)
Compression	G.726, G.711
Interface	External microphone input External line output

Network	
Users	Live viewing for up to 10 clients
Security	Access list, digest authentication, HTTPS, IEEE 802.1x, Password protection, user access log, user account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
Interface	10 Base-T/100 Base-TX ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Profile G, S supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>

Solution Integration	
VADP Package	Trend Micro IoT Security (3-year free trial)
Video Motion Detection	Five-window video motion detection

Alarm and Event	
Event Trigger	Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot
Event Action	Event notification via audio clip, digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card

General	
Connectors	<p>RJ-45 cable connector for 10/100 Mbps Network/PoE connection</p> <p>Audio input Audio output DC 12V power input AC 24V power input Digital input Digital output (DO+: 12V, 50mA; DO-: 30V, Open Drain, 1A) BNC RS485</p>
LED Indicator	System power and status indicator

Power Input	AC 24V, DC 12V, IEEE 802.3at PoE Class 4 (Simultaneous Power Redundancy Supported)
Power Consumption	PoE: Max. 14 W DC 12V: Max. 11 W AC 24V: Max. 12.4 W
Dimensions	121 x 121 x 452.2 mm
Weight	2,050 g
Certifications	EMC CE (EN 55032 Class A, EN 55024, EN 50121-3-2, EN 50121-4), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A)  Safety UL (UL 60950-1), CB (IEC/EN 60950-1, IEC/EN 60950-22)  Environment IK10 (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X)  IA BIS (IS 13252)
Operating Temperature	Start Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working temperature: -50°C ~ 60°C (-58°F ~ 140°F)
Humidity	90%

## System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above

## Included Accessories

Packing Contents	Quick installation guide, alignment sticker, screw pack, waterproof accessory bag, junction box, sunshield
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