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VIVOTEK IB9391-EHTV-v2 Bullet Network Camera Owner's Manual

Contents

VIVOTEK IB9391-EHTV-v2 Bullet Network Camera

Product Information

The IB9391-EHTV-v2 Bullet Network Camera is a high-performance surveillance camera that provides supreme night visibility and unparalleled visibility in extremely bright and dark environments. It features H.265 compression technology with Smart Stream III, which allows for efficient video compression and storage. This camera has a weather-proof IP66, IP67 rating, and vandal-proof IK10 rating, making it suitable for outdoor use. It also has NEMA 4X-rated protection, which means it can withstand harsh environmental conditions.

Technical Specifications

- **System Information:** IB9391-EHTV-v2 Multimedia SoC (System-on-Chip), 8 GB flash, 2 GB RAM
- **Camera Features:** Image sensor, max. resolution of 3840×2160, lens type, focal length, aperture, iris type,

field of view, shutter time, WDR technology, day/night removable IR-cut filter, IR illuminators up to 50m with Smart IR III, minimum illumination, pan range, tilt range, rotation range, pan/tilt/zoom functionalities, storage

- **Built-in Installation Aids:** AI-powered smart motion detection and smart VCA, signed firmware and secure boot, cyber protection via Trend Micro IoT Security
- **Video:** Video compression, maximum frame rate of 30 fps at 3840×2160 resolution, maximum streams, S/N ratio, dynamic range, video streaming
- **Image Settings:** Image settings such as brightness, contrast, saturation, sharpness, white balance, exposure control
- **Audio:** Audio capability, audio compression, audio interface
- **Network:** Network protocols, users, security

Product Usage Instructions

The IB9391-EHTV-v2 Bullet Network Camera is designed for outdoor surveillance. To use the camera, follow these steps:

1. Mount the camera in a suitable location using the built-in installation aids.
2. Connect the camera to a power source and network using the supplied cables.
3. Configure the camera settings using the web interface or software provided.
4. Monitor the camera feed using a compatible device such as a computer or mobile phone.
5. Adjust the image settings as necessary to achieve optimal image quality.
6. Ensure that the camera is protected from unauthorized access by setting up appropriate security measures.

- 4K 30fps
- H.265
- SNV
- WDR Pro
- 50M IR
- Smart IR III
- Vision Object Analytics
- NEMA 4X
- -50°C ~ 60°C
- 30 fps @ 3840×2160
- H.265 Compression Technology with Smart Stream III
- Installation-friendly Design
- Weather-proof IP66, IP67 and Vandal-proof IK10, NEMA 4X-rated Protection SNV (Supreme Night Visibility) for Low Light Conditions
- WDR Pro for Unparalleled Visibility in Extremely Bright and Dark Environments Built-in IR Illuminators up to 50M with Smart IR III
- Signed Firmware and Secure Boot
- AI-powered Smart Motion Detection and Smart VCA
- Cyber Protection via Trend Micro IoT Security

Technical Specifications

System Information

Model	IB9391-EHTV-v2
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

Camera Features

Image Sensor	1/1.8" Progressive CMOS
Max. Resolution	3840x2160 (8MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 4.4 ~ 10.2 mm (f = 3.2~10.3mm, equivalent focal length @ 1/2.8")
Aperture	F1.38 ~ F2.24
Iris Type	P-iris
Field of View	100° ~ 43° (Horizontal) 50° ~ 24° (Vertical) 110° ~ 49° (Diagonal)
Shutter Time	1 sec. to 1/100,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut Filter	Yes
IR Illuminators	Built-in IR illuminators, effective up to 50 meters with Smart IR II, IR LED*4
Minimum Illumination	0.01 lux @ F1.38 (Color) <0.005 lux @ F1.38 (B/W) 0 lux with IR illumination on
Pan Range	±180°
Tilt Range	90°
Rotation Range	±180°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card slot and recording to network-attached storage (NAS)
Built-in Installation Aids	Remote focus, remote zoom, Micro USB*, pixel calculator *Requires Wi-Fi dongle and Micro B converter

Video

Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 3840x2160
Maximum Streams	3 video streams (Up to 8 configurable profiles)
S/N Ratio	58 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III
Image Settings	General settings: video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings; Illuminators: illuminators, Smart IR (target zone); Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, LDC, EIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Focus: zoom, focus; Privacy mask; Pixel calculator; Scheduled profile settings

Audio

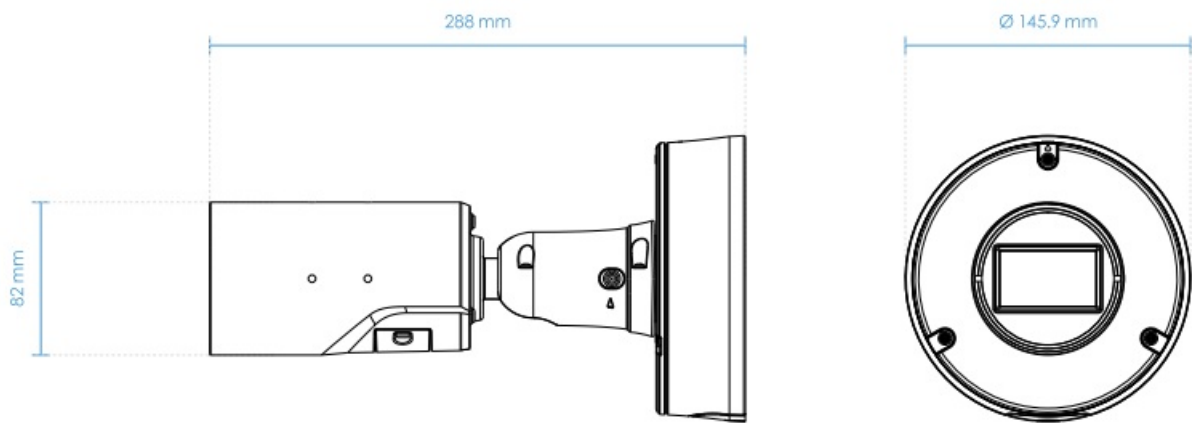|	
Audio Capability	Two-way audio (Full duplex)
Audio Compression	G.711, G.726
Audio Interface	External microphone input External line output

Network

Users	Live viewing for up to 10 clients

Security	Access list, CSRF protection, digest authentication, HTTPS , IEEE 802.1x, password protection, secure boot, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP/HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Profile G, S, T supported, specification available at www.onvif.org

AI Analytics

Compute Capability	Built-in CNN acceleration module
Vision Object Analytics	Object Detection: people, vehicle (4-wheeled, 2-wheeled); Attribute Extraction: people (gender, color, bag, hat), vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction
Event Application	Smart Motion Detection (Five-window video motion detection, people detection, vehicle detection, time filter), Smart VCA (Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection, parking violation detection*, restricted zone detection*) *License required. Please access https://license.vivotek.com/ for free trial license.
AI-powered Image Enhancement	Smart IR III
Applications	Deep Learning VCA (Smart Motion Detection, Smart VCA)

Solution Integration

VADP Package	Stratocast, Trend Micro IoT Security (3-year free trial)

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, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card

General

Connectors	RJ-45 cable connector for 10/100 Mbps PoE network connection Audio line input Audio line output DC 12V power input AC 24V power input Digital input*3 Digital output*3 Micro USB
LED Indicator	System power and status indicator
Power Input	AC 24V, DC 12V, IEEE 802.3at PoE Class 4 (Power Redundancy)
Power Consumption	PoE: Max. 19.38/15.80 W (IR on/off) DC 12V: Max. 15.84/12.26 W (IR on/off) AC 24V: Max. 16.52/12.94 W (IR on/off)
Dimensions	ø 153 x 283 mm
Weight	1.87 kg
Certifications	EMC: CE (EN 55032/EN 55035 Class A, EN 50121-4), FCC (FCC Part 15 Subpart B Class A), UKCA (BS EN 55032/BS EN 55035 Class A),RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD, (EN 62368-1), UKCA (BS EN IEC 62368-1);; Environment: IK10 (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X), IEC 60068-2-11; IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F) (IR off) -50°C ~ 50°C (-58°F ~ 122°F) (IR on)
Humidity	98% RH (non-condensing)
Warranty	36 months

System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above

Other Players	VLC: 1.1.11 or above
Included Accessories	
Packing Contents	Quick installation guide, product labels, alignment sticker, L-shaped wrench, screw pack, waterproof accessory pack, sunshield, I/O cable, adaptor plate, conduit bracket
DORI (EN 62676-4 Standard)	
Detect (25PPM/ 8PPF)	Wide: 100.1 m (328.4 ft) Tele: 204.5 m (670.8 ft)
Observe (63PPM/ 19PPF)	Wide: 40.0 m (131.3 ft) Tele: 81.8 m (268.3 ft)
Recognize (125PPM/ 38PPF)	Wide: 20.0 m (65.6 ft) Tele: 40.9 m (134.1 ft)
Identify (250PPM/ 76PPF)	Wide: 10.0 m (32.7 ft) Tele: 20.4 m (67.0 ft)

Dimensions

288 mm

82 mm

Ø 145.9 mm

Compatible Accessories

Mounting Kits

AM-312
Pole Mount Adapter

Mounting Kits

AM-412
Corner Mount Adapter

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Documents / Resources

VIVOTEK

IB9391-EHTV-v2
Bullet Network Camera

VIVOTEK IB9391-EHTV-v2 Bullet Network Camera [pdf] Owner's Manual
IB9391-EHTV-v2 Bullet Network Camera, IB9391-EHTV-v2, Bullet Network Camera, Network Camera, Camera

References

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