# VIVOTEK

**A Delta Group Company**

**V series**

# IB9389-EHT-v2

## Bullet Network Camera

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### 5MP • H.265 • WDR Pro • Smart Stream III • SNV

- 30 fps @ 2560x1920, 60 fps @ 1920x1080
- WDR Pro (120 dB) for Improved Visibility in High Contrast Scenes
- Built-in IR Illuminators, Effective up to 30 Meters
- Smart IR Technology to Avoid Overexposure
- Trend Micro IoT Security
- Vandal-proof IK10-rated, Weather-proof IP66-rated Housing
- 2.8 ~ 10mm Motorized Lens

**TREND MICRO**

# Technical Specifications

## System Information

| | |
|---|---|
| Model | IB9389-EHT-v2 |
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 8 GB |
| RAM | 1 GB |

## Camera Features

| | |
|---|---|
| Image Sensor | 1/2.7" Progressive CMOS |
| Max. Resolution | 2560x1920 (5MP) |
| Lens Type | Motorized, Vari-focal, Remote Focus |
| Focal Length | f = 2.8 ~ 10 mm |
| Aperture | F1.8 ~ F2.74 |
| Iris Type | Fixed iris |
| Field of View | 95°~41° (Horizontal)<br>69°~31° (Vertical)<br>127°~51° (Diagonal) |
| Shutter Time | 1/5 sec. to 1/32,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut Filter | Yes |
| IR Illuminators | Built-in IR illuminators, effective up to 30 meters with Smart IR LED*4 |
| Minimum Illumination | 0.06 lux @ F1.8 (Color)<br>0.01 lux @ F1.8 (B/W)<br>0 lux with IR illumination on |
| 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 and recording to network-attached storage (NAS) |
| Built-in Installation Aids | Remote focus, remote zoom |

## Video

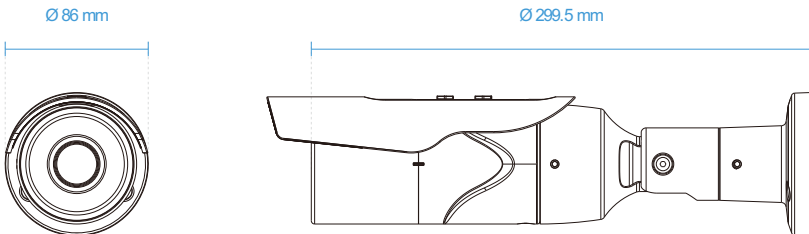| | |
|---|---|
| Video Compression | H.265, H.264, MJPEG |
| Maximum Frame Rate | 30 fps @ 2560x1920<br>60 fps @ 1920x1080 |
| Maximum Streams | 3 video streams (Up to 8 configurable profiles) |
| S/N Ratio | 55 dB |
| Dynamic Range | 120 dB |
| Video Streaming | Adjustable resolution, quality and constant 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, anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, 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; Scheduled profile settings |

## Network

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|---|---|
| Users | Live viewing for up to 10 clients |
| Security | Access list, 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, 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 (RJ-45)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |

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| ONVIF | Profile G, S, T supported, specification available at www.onvif.org |

## Solution Integration

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|---|---|
| Smart Motion Detection | Five-window video motion detection, human detection, time filter<br>(Without bounding box) |
| Smart VCA | Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection |
| VADP Package | Deep Learning VCA (Smart Motion Detection, Smart VCA*), Trend Micro IoT Security (3-year free trial)<br>*License required. Free trial license is not supported. |

## Alarm and Event

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|---|---|
| Event Trigger | Camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot |
| Event Action | Event notification via camera link, email, HTTP, FTP/SFTP, NAS server, SD card<br>File upload via email, HTTP, FTP/SFTP, NAS server, SD card |

## General

| | |
|---|---|
| Connectors | RJ-45 cable connector for 10/100Mpbs Network/PoE connection |
| LED Indicator | System power and status indicator |
| Power Input | IEEE 802.3af PoE Class 0 |
| Power Consumption | Max. 12.95 W (IR on)<br>Max. 9.95 W (IR off)<br>Max. 12.95 W (IR on, Heater on)<br>Max. 10.55 W (IR on, Heater off) |
| Dimensions | Ø 88 x 308 mm |
| Weight | 1 kg |
| Certifications | EMC: CE (EN55032, EN55024 Class A, EN50121-4 ), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR32 Class A), VCCI (VCCI-CISPR 32 Class A);<br>Safety: UL (UL62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471);<br>Environment: IK10 (IEC 62262), IP66 (IEC 60529);<br>IA: BIS (IS 13252), BSMI (EMC: CNS 13438, Safety: CNS 14336-1) |
| Operating Temperature | Starting Temperature:<br>-30°C ~ 50°C (-13°F ~ 122°F)<br>Working Temperature:<br>-40°C ~ 60°C (-40°F ~ 140°F) (IR off)<br>-40°C ~ 50°C (-40°F ~ 122°F) (IR on) |
| Humidity | 98% RH (non-condensing) |
| Warranty | 36 months |

## System Requirements

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

## Included Accessories

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|---|---|
| Packing Contents | Quick installation guide, alignment sticker, screw pack |

# Dimensions

Ø 86 mm          Ø 299.5 mm

# Compatible Accessories

| Mounting Kits | Mounting Kits |
|:---:|:---:|
| AM-312<br>Pole Mount Adapter | AM-412<br>Corner Mount Adapter |
| **Mounting Kits** | **Mounting Kits** |
| AM-523<br>Adapting Plate | AM-71C<br>Waterproof Junction Box |

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