







## IB9383-HV

**Bullet Network Camera** 

5MP 30fps • WDR Pro • Smart VCA • IP66/IK10

## **Technical Specifications**

## System Information

Model	IB9383-HV
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB
Camera Features	
Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	f = 3.6 mm
Aperture	F2.0
Iris Type	Fixed iris
Field of View	79.6° (Horizontal) 57.8° (Vertical) 105.8° (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 Illuminator up to 30 meters with Smart IR, IR LED*2
Minimum Illumination	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 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 (1TB capacity supported) and recording to network-attached storage (NAS)
Built-in Installation Aids	Pixel calculator
Video	
Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920
Maximum Streams	3 video streams (Up to 8 configurable profiles)
Main Stream	30 fps @ 2560x1920,2048x1536,1920x1440,1600x1200,1280x960,800x600, 640x480 (4:3) 30 fps @ 2560x1440, 1920x1080, 1600x904, 1360x768,1280x720, 640x360 (16:9) 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
2nd Stream	30 fps @ 1920x1440, 1600x1200, 1280x960, 640x480 (4:3); 30 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
3rd Stream	30 fps @ 1280x960, 800x600, 640x480 (4:3); 30 fps @ 1280x720, 640x360 (16:9); 60 fps @ 1280x720, 640x360 (16:9)
S/N Ratio	56 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/smart IR; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR; Exposure: BLC, HLC, exposure control (exposure level, exposure time, gain control), Image sharpener for motion blur, AE speed adjustment, WDR; Privacy mask; Pixel calculator; Scheduled profile settings
Audio	
Audio Capability	One-way Audio
Audio Compression	MPEG-2 AAC-LC, G.711, G.726
Audio Interface	Built-in microphone
Effective Range	5 meters
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, NTCIP, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2/1.3, 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, T supported, specification available at www.onvif.org
Al Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
Vision Object Analytics	Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction
Application	Deep Learning VCA (Smart Motion Detection, Smart VCA) Smart Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Face detection)
Application available with license	Unattended object detection, Missing object detection, Crowd detection, Running detection, Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit vivotek.com/video-analytics
Solution Integration	
Applications	Trend Micro (Default, 1-year free trial)
Alarm and Event	
	Audio detection, camera tampering detection, cybersecurity events (brute force attack event,



Central     File Upload Via email, FLIP, FLIPSFLP, NAS Server, SU Card       Cennectors     RJ-45 cable connector for 10/100Mbps Network/PoE connection       Cable Indicator     System power and status indicator       Power Consumption     Max. 10.6 W / 6.0 W (R on/off)       Dimensions     Ø 91.0 x 226.6 mm       Weight     925 g       EMC:     CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), PCC (FCC CPA FIS Subpart B 50032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), VCCI		
ConnectorsRJ-45 cable connector for 10/100Mbps Network/PoE connectionLED IndicatorSystem power and status indicatorPower InputIEEE 802.3af PoE Class 3Power ConsumptionMax. 10.6 W / 6.0 W (IR on/off)Dimensions0 91.0 x 226.6 mmWeight225 gCef (Ef B002/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 16 Sciopart B Class A), RCM (ASNX25 CLSPR 32 Class A), VCCI (VCCI-CISPR	Event Action	
LED Indicator     System power and status indicator       Power Input     IEEE 802.3af POE Class 3       Power Consumption     Max. 10.6 W / 6.0 W (IR on/off)       Dimensions     Ø 91.0 x 226.6 mm       Weight     925 g       Careffications     EKC: CCCC (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52032/BS EN 55035 Class A), VCCI (VCCI-CISPR 32 Class A), UKCA (BS EN 52038-1), IEX (IC (GE 5208-1), IEX (IC (GE 5208-1)), IEX (IC (GE 5208-1), IEX (IC (GE 5208-1), IEX (IC (GE 5208-1), IEX (IC (GE 50052); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safely: CNS 15936, Class A), CNC 1, I.1 (IC (IC COR ONLOW 100	General	
Power foor       IEEE 802.3af POE Class 3         Power Consumption       Max. 10.6 W / 6.0 W (IR on/off)         Dimensions       Ø 91.0 x 226.6 mm         Weight       925 g         Certifications       EMC: CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), PCC (FCC Part 15 Subpart B Class A), RCM (AS/N2S CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), ICC (CES-DOSI ISLUE 7, Class A), ICC (CES-DOSI ISLUE 7, Class A), ICC (CES-DOSI ISLUE 7, Class A), ICC (CES-DOSI ISLUE 7, C	Connectors	RJ-45 cable connector for 10/100Mbps Network/PoE connection
Power Consumption       Max. 10.6 W / 6.0 W (IR on/off)         Dimensions       0 91.0 x 226.6 mm         Weight       925 g         Definitions       EMC: Dimensions         Certifications       EMC: Dimensions         Certifications       EMC: Dimensions         Definitions       EMC: Dimensions         Certifications       EMC: Dimensions         Definitions       EMC: Dimensions         Dimensions       EMC: Dimensions         Definitions       EMC: Dimensions         Dimensions       EMC: Dimensions         Definitions       EMC: Dimensions         Certifications       EMC: Dimensions         Dimensions       EMC: Dimensions	LED Indicator	System power and status indicator
Dimensions       Ø 91.0 x 226.6 mm         Weight       925 g         EMC: CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/ES EN 55035 Class A), FCC (FCC CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/ES R 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A)         Certifications       Safety: UL (UL 62368-1), UCA (BS EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 630°C ~ 55°C (-22°F ~ 12°F) (IR off) -30°C ~ 55°C (-22°F ~ 12°F) (IR off)         Munidity       90%         System Requirements         Operating System       Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)         Web Browser       Chrome 58.0 or above         Opter Players       VLC: 1.1.11 or above         Included Accessories	Power Input	IEEE 802.3af PoE Class 3
Weight       925 g         Weight       925 g         EMC: CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), CMC (ASNZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICE5-003 Isue 7, Class A) Safety: UL (UL 62368-1), CB (IEC/EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 60328), IA (BS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)         Operating Temperature	Power Consumption	Max. 10.6 W / 6.0 W (IR on/off)
EMC:     CC:     CC (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC CPT (15 Stubpart B Class A), RCM (AS/NZS ClSPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A)       Safety:     UL (UL 62368-1), CB (IEC/EN 62368-1); EL/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1); El/Environment:       UL (UL 62368-1), OCB (IEC 60529); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)       Starting Temperature     -10°C ~ 50°C (-14°F ~ 122°F)       Working Temperature:     -30°C ~ 50°C (-22°F ~ 131°F) (IR off)       -30°C ~ 50°C (-22°F ~ 131°F) (IR off)     -30°C ~ 50°C (-22°F ~ 131°F) (IR off)       -30°C ~ 50°C (-22°F ~ 131°F) (IR off)     -30°C ~ 50°C (-22°F ~ 131°F) (IR off)       -30°C ~ 50°C (-22°F ~ 131°F) (IR off)     -30°C ~ 50°C (-22°F ~ 131°F) (IR off)       -30°C ~ 50°C (-22°F ~ 131°F) (IR off)     -30°C ~ 50°C (-22°F ~ 131°F)       Verser     Chrome 58.0 or above       Operating System     Microsoft Windows 10/8/7       Mac 10.12 (Chrome only)     More 58.0 or above       Other Players     VLC: 1.1.11 or above       Included Accessories     Quick installation guide, alignment sticker, screw pack, cable gland       DORI (EN 62676-4 Standard)     Detect (25PPM 8PPF)       Detect (25PPM 98PF)     31.3 m (102.7 ft)       Recognize (132PPW 38PPF)     15.6 m (51.3 ft)	Dimensions	Ø 91.0 x 226.6 mm
Certifications     CE (EN 55032/EN 55035 Class A), RCM (AS/NZS CISPR 32 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A)       Certifications     CI (CES-003 Issue 7, Class A)       UL (UL 52368-1), UKCA (BS EN 62368-1), EC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1), Ervironment:       K10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15986-1)       Operating Temperature     -10° C - 50°C (-(4*F ~ 122*F)       Working Temperature:     -30°C - 55°C (-22*F ~ 131*F) (IR off)       -30°C - 55°C (-22*F ~ 131*F) (IR off)     -30°C - 55°C (-22*F ~ 132*F) (IR on)       Humidity     90%       System Requirements     Microsoft Windows 10/8/7       Mac 10.12 (Chrome only)     Mac 10.12 (Chrome only)       Neb Browser     Chrome 58.0 or above       Other Players     VLC: 1.1.11 or above       Included Accessories     Quick installation guide, alignment sticker, screw pack, cable gland       DORI (EN 62676-4 Standard)     Tes 3 m (256.8 ft)       Deserve (63PPM/ 19PPF)     78.3 m (256.8 ft)       Chrome (53.9 FM/ 19PPF)     31.3 m (102.7 ft)	Weight	925 g
Operating Temperature     -0° C ~ 50° C (-22° F ~ 122° F) '0° C ~ 50° C (-22° F ~ 121° F) (IR off) -30° C ~ 50° C (-22° F ~ 122° F) (IR on)       Humidity     90%       System Requirements     90%       Operating System     Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)       Neb Browser     Chrome 58.0 or above       Other Players     VLC: 1.1.11 or above       Included Accessories     Quick installation guide, alignment sticker, screw pack, cable gland       Postert (25PPW 8PPF)     78.3 m (256.8 ft)       Observe (63PPM/ 19PPF)     31.3 m (102.7 ft)       Recognize (125PPW/ 38PPF)     15.6 m (51.3 ft)	Certifications	CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A) Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1); Environment: IK10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS
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     VLC: 1.1.11 or above       Packing Contents     Quick installation guide, alignment sticker, screw pack, cable gland       DORI (EN 62676-4 Standard)     78.3 m (256.8 ft)       Detect (25PPM 8PPF)     31.3 m (102.7 ft)       Recognize (125PPM 38PPF)     15.6 m (51.3 ft)	Operating Temperature	-10°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off)
Deperating 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       VLC: 1.1.11 or above         Packing Contents       Quick installation guide, alignment sticker, screw pack, cable gland         DORI (EN 62676-4 Standard)       78.3 m (256.8 ft)         Observe (63PPM/ 19PPF)       31.3 m (102.7 ft)         Recognize (125PPM/ 38PPF)       15.6 m (51.3 ft)	Humidity	90%
Operating System   Mac 10.12 (Chrome only)     Web Browser   Chrome 58.0 or above     Other Players   VLC: 1.1.11 or above     Included Accessories   Ucc: 1.1.11 or above     Packing Contents   Quick installation guide, alignment sticker, screw pack, cable gland     DORI (EN 62676-4 Standard)   78.3 m (256.8 ft)     Observe (63PPM/ 19PPF)   31.3 m (102.7 ft)     Recognize (125PPM 38PPF)   15.6 m (51.3 ft)	System Requirements	
Other Players     VLC: 1.1.11 or above       Included Accessories     Quick installation guide, alignment sticker, screw pack, cable gland       Packing Contents     Quick installation guide, alignment sticker, screw pack, cable gland       DORI (EN 62676-4 Standard)     78.3 m (256.8 ft)       Detect (25PPW 8PPF)     78.3 m (102.7 ft)       Observe (63PPM/ 38PPF)     15.6 m (51.3 ft)	Operating System	
Included Accessories       Packing Contents     Quick installation guide, alignment sticker, screw pack, cable gland       DORI (EN 62676-4 Standard)     78.3 m (256.8 ft)       Detect (25PPW 8PPF)     78.3 m (102.7 ft)       Observe (63PPM/ 19PPF)     15.6 m (51.3 ft)	Web Browser	Chrome 58.0 or above
Packing Contents   Quick installation guide, alignment sticker, screw pack, cable gland     DORI (EN 62676-4 Standard)   78.3 m (256.8 ft)     Detect (25PPW 8PPF)   78.3 m (256.8 ft)     Observe (63PPM/ 19PPF)   31.3 m (102.7 ft)     Recognize (125PPW 38PPF)   15.6 m (51.3 ft)	Other Players	VLC: 1.1.11 or above
DORI (EN 62676-4 Standard)         Detect (25PPW 8PPF)       78.3 m (256.8 ft)         Observe (63PPM/ 19PPF)       31.3 m (102.7 ft)         Recognize (125PPW 38PPF)       15.6 m (51.3 ft)	Included Accessories	
Detect (25PPW 8PPF)   78.3 m (256.8 ft)     Observe (63PPM/ 19PPF)   31.3 m (102.7 ft)     Recognize (125PPW 38PPF)   15.6 m (51.3 ft)	Packing Contents	Quick installation guide, alignment sticker, screw pack, cable gland
Dbserve (63PPM/ 19PPF)       31.3 m (102.7 ft)         Recognize (125PPM/ 38PPF)       15.6 m (51.3 ft)	DORI (EN 62676-4 Standard)	
Recognize (125PPW 38PPF) 15.6 m (51.3 ft)	Detect (25PPW 8PPF)	78.3 m (256.8 ft)
	Observe (63PPM/ 19PPF)	31.3 m (102.7 ft)
dentify (250PPM/ 76PPF) 7.8 m (25.5 ft)	Recognize (125PPW 38PPF)	15.6 m (51.3 ft)
	Identify (250PPM/ 76PPF)	7.8 m (25.5 ft)

