VH311-B2 Series

HD 2MP Intelligent Star light WDR IR IP Box Camera

Infinova®
The Integrator's Manufacturer

HD | 2.0 Mega Pixels | 1/2.8" CMOS | PoE | Day & Night

IP66 | H.264 M-JPEG | H.265 M-JPEG | ONVIF | http:// Web Server

- 1/2.8" CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- With IR illumination distance up to 50m
- Smart-IR technology makes the power of the IR illuminator to be adjusted according to ambient lighting conditions.
- Supports multi-frame integrated WDR, with a range up to 120dB
- With H.265/ H.264/M-JPEG three encoding formats
- High-resolution image signal output: 1920×1080@30fps
- Smart H.265/Smart H.264 applied for a better utilization of broadband resources
- Supports vivid smart functions:
  - General Smart Functions: motion detection, camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, color cast detection
  - Facial Applications: Faces can be detected, tracked and snapshot in the live view; better captured face images are selected and the duplicates deleted; Face images and scene images can be uploaded to the platform for a secondary analysis and retrieval; Face exposure is supported
  - Density Detection: People gathering detection and density detection
  - Counting: counting for heads/faces/figures/vehicles is supported; queue length detection, customer attention detection
  - Behavior Analysis: Cross-line detection, intrusion detection, loitering detection, fast movement detection
- Bi-directional audio, G.711-U/G.711-A/AAC
- Local PC recording
- Micro SD card/NAS storage
- Supports multiple ways to trigger alarms, such as, IO input, Smart Analysis, SD card removal, SD card full recording, SD card full image storage, network disconnection, heartbeat loss; supports flexible alarm associated settings: like I/O output, email, FTP uploading images, audio, SD card recording, SD card snapshot, and alarm information pushing

- Up to eight ROI (Region of Interest) areas
- Up to sixteen definable privacy mask areas
- Supports corridor mode
- Supports simultaneous access and parameter setting via Web Server from multiple clients
- Compatible with Infinova digital video surveillance software
- Standard SDK is provided for easy integration with other video surveillance software
- Onvif Profile S & Profile G compliant
- Powered by PoE/12VDC/24VAC
- IP 66 environmental rating

Infinova VH311-B2 series HD 2MP Intelligent Star Light WDR IR IP Box camera applies 1/2.8 CMOS sensor with built-in HD motorized fixed-focal lens (2.8mm/4mm/6mm/8mm/12mm/16mm optional). With built-in IR lights, the IR illumination distance covers up to 50m and the power can be auto-adjusted according to ambient lighting conditions, which can vastly reduce power consumption and extend its service life.

WithH.265/H.264/M-JPEG video compression formats, the camera can output high-definition image with resolution up to 1080P@30fps, which can provide marvelous definition and color restoration and obtain details accurately.

With self-developed deep learning algorithms, the camera is embraced with vivid smart functions such as video anomaly detection, face detection, face tracking and face capture, counting, density detection, and behavior analysis, catering for various high-end commercial requests.

The camera is widely applied in communication, governments, schools, factories, garages, warehouses and other occasions with low light condition and requesting high-resolution image quality.
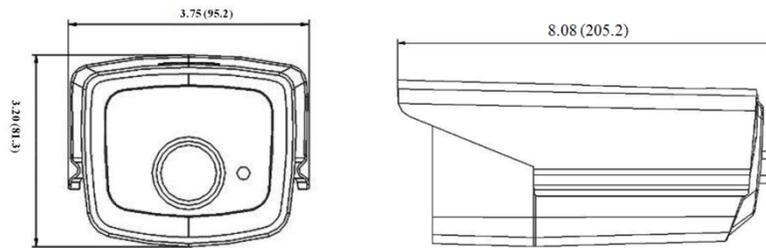
Technical specifications

Image Sensor	1/2.8" progressive scan CMOS	Facial Applications	Faces can be detected, tracked and snapshot in the live view; better captured face images are selected and the duplicates deleted; Face images and scene images can be uploaded to the platform for the secondary analysis and retrieval; Face exposure is also supported
Focal Length	F1.6, f= 4mm, 6mm, 8mm, 12mm, 16mm F1.8, f=2.8mm		
D/N Switch	ICR	Density Detection	People gathering detection and density detection
Lens Mount	M12	Counting	counting for heads/faces/figures/vehicles is supported, queue length detection, customer attention detection
Video Compression	H.265 /H.264/M-JPEG		
Max. Coding Capacity	1080P@30fps+720P@30fps+M-JPEG1080P@30fps	Behavior Analysis	Cross-line detection, intrusion detection, loitering detection, fast movement detection
Data Rate	Variable data rate; Fixed data rate: Major stream: 256Kbps~10240Kbps; Minor stream: 256Kbps~4096Kbps	Built-in Storage	Micro SD/SDHC/SDXC card (up to 128G)
		Local PC Recording	Available
		Alarm Interface	2 alarm inputs, 1 switch output
Multi-stream Code	Three-stream independent outputting	Alarm Input	IO input, Smart Analysis, SD card removal, SD card full recording, SD card full image storage, network disconnection, heartbeat loss
Video Rotation	Video can be rotated in 90°, 180° or 270°		
ROI	Up to 8 definable ROI areas	Alarm Association	I/O output, email, FTP uploading images, audio, SD card recording, SD card snapshot, and alarm information pushing
Network Delay	≤200ms		
Audio	Audio Compression: G.711-U/G.711-A/AAC Audio Sample Rate: 8KHz (for G.711-U/G.711-A), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC) Audio Interface: 1 input, Linear level; 1 output, Linear level	Operation System	Windows XP, Windows 7, Windows 8
		Browser	IE8 or above
		Access Protocol	ONVIF Profile S, Profile G, Profile Q, Infinova CGI
		Web Server	Available
		Remote Updating	Available
S/N Ratio	55dB	Password Protection	Available
Shutter	Auto/Manual (1/1s~1/32000s)	RS485 Interface	Available
Exposure	Auto/Manual/Shutter	Analog Video Output	-
Sensitivity	Color mode: 0.001lux @ F1.4 (AGC ON); B/W mode: 0.0001lux@ F1.4 (AGC ON); 0 lux (IR ON)	Network Interface	1 RJ 45 interface, 10M/100M self-adaptive Ethernet port
		IP Address Filter	Available
White Balance	Auto/Manual/Indoor	Network Protocol	IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3, DHCP, SNMP (V1, V3), FTP, SMTP, NTP, RTC, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x, QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter, TLS, DES, Multicast
Dynamic Range	Up to 120dB		
Video Effect	Brightness, sharpness, hue, contrast, saturation adjustable		
Noise Reduction	3D		
Defog	Available		
EIS	Available	Voltage	PoE (IEEE 802.3af Class2)/12VDC(±20%)/ 24VAC(±20%)
Mirror	Horizontal/Vertical		
Corridor Mode	Available	Power	12W
Gain Control	Auto/Manual, up to 64X	Anti-static	Contact 6KV, air 8KV
BLC	Available	Surging Protection	Difference mode 1KV, common mode 2KV
HLC	Available	Working Temperature	-40°C~+60°C
Privacy Mask	Up to 16 definable areas	Storage Temperature	-20°C~+60°C
IR Wave Length	850nm	Humidity	0%-90% RH (non-condensing)
Illumination Distance	50m	Environmental Rating	IP66
General Functions	motion detection, camera tampering, camera shifting, high brightness detection, low brightness detection, color cast detection	Unit Dimensions (H×Ø)	3.20"×3.75"×8.08" (81.3mm×95.2mm×205.2mm)
		Box Dimensions (L x W x H)	12.05"×6.89"×5.75" (306mm×175mm×146mm)
		Net Weight	1.41lbs. (0.64kg)
		Shipping Weight	1.76lbs. (0.80kg)

Ordering information

VH311-B202-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/1.28"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 2.8mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

VH311-B204-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 4mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

VH311-B206-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 6mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

VH311-B208-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 8mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

VH311-B212-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 12mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

VH311-B216-A0   HD 2MP WDR IR Smart IP Box Camera, 2.0Mpx, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 16mm fixed zoom lens, 50m IR distance, outdoor, IP66, PoE/12VDC/24VAC

Dimensions

3.75 (95.2)

3.20 (81.3)

8.08 (205.2)

(Unit: inch, in the parentheses is mm)