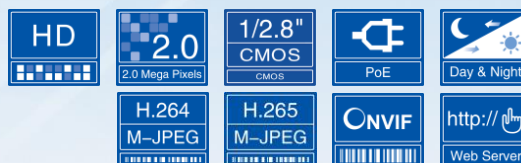


VH311-A2 Series

HD 2MP Intelligent Star light WDR IR IP Camera

Infinova
The Integrator's Manufacturer



- 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
- Built-in motorized zoom lens, assistant to focus adjustment
- With H.265/ H.264/M-JPEG three encoding formats
- High-resolution image signal output: 1280×960@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 67 environmental rating

Infinova VH311-A2 series HD 2MP Intelligent Star Light WDR IR IP camera applies 1/2.8 CMOS sensor with built-in 2.8~12mm or 7~22mm motorized vari-focal lens. 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.

With H.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

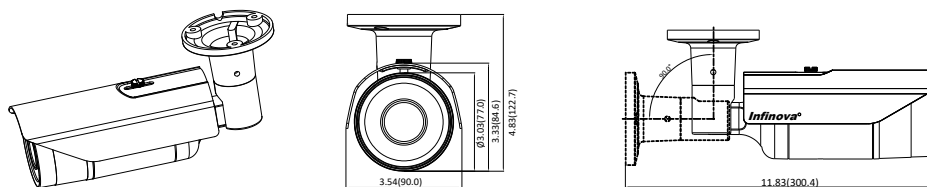
Image Sensor	1/2.8" progressive scan CMOS
Iris	F1.4
Focal Length	f=2.8~12mm, f=7~22mm
D/N Switch	ICR
Lens Mount	Φ14
Video Compression	H.265 /H.264/M-JPEG
Max. Coding Capacity	1080P@30fps+720P@30fps+M-JPEG1080P@30fps
Data Rate	Variable data rate; Fixed data rate: Major stream: 256Kbps~10240Kbps; Minor stream: 256Kbps~4096Kbps
Multi-stream Code	Three-stream independent outputting
Video Rotation	Video can be rotated in 90°, 180° or 270°
ROI	Up to 8 definable ROI areas
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
S/N Ratio	55dB
Shutter	Auto/Manual (1/1s~1/32000s)
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.001lux @ F1.4 (AGC ON); B/W mode: 0.0001lux@ F1.4 (AGC ON); 0 lux (IR ON)
White Balance	Auto/Manual/Indoor
Dynamic Range	Up to 120dB
Video Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Noise Reduction	3D
Defog	Available
EIS	Available
Mirror	Horizontal/Vertical
Corridor Mode	Available
Gain Control	Auto/Manual, up to 64X
BLC	Available
HLC	Available
Privacy Mask	Up to 16 definable areas
IR Wave Length	850nm
Illumination Distance	50m
General 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 the secondary analysis and retrieval; Face exposure is also 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
Built-in Storage	Micro SD/SDHC/SDXC card (up to 128G)
Local PC Recording	Available
Alarm Interface	2 alarm inputs, 1 switch output
Alarm Input	IO input, Smart Analysis, SD card removal, SD card full recording, SD card full image storage, network disconnection, heartbeat loss
Alarm Association	I/O output, email, FTP uploading images, audio, SD card recording, SD card snapshot, and alarm information pushing
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
Password Protection	Available
RS485 Interface	Available
Analog Video Output	-
Network Interface	1 RJ 45 interface, 10M/100M self-adaptive Ethernet port
IP Address Filter	Available
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
Voltage	PoE (IEEE 802.3af Class2)/12VDC(±20%)/24VAC(±20%)
Power	12W
Anti-static	Contact 6KV, air 8KV
Surging Protection	Difference mode 1KV, common mode 2KV
Working Temperature	-40°C~+60°C
Storage Temperature	-20°C~+60°C
Humidity	0%-90% RH (non-condensing)
Environmental Rating	IP67
Unit Dimensions (H×Ø)	3.33"×3.54"×11.83" (84.6mm×90mm×300.4mm)
Box Dimensions (L x W x H)	14.96"×5.98"×5.12" (380mm×152mm×130mm)
Net Weight	VH311-A20B: 0.94lbs. (0.88kg) VH311-A20E: 2.09lbs. (0.95Kg)
Shipping Weight	VH311-A20B: 2.38bs. (1.08kg) VH311-A20E: 2.76lbs. (1.25Kg)

Ordering information

VH311-A20B-A0	HD 2MP WDR IR Smart IP Camera, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 2.8~12mm motorized vari-focal lens, 50m IR distance, outdoor, IP67, PoE/12VDC/24VAC
VH311-A20E-A0	HD 2MP WDR IR Smart IP Camera, 1/2.8"CMOS, day/night, H.265/H.264/M-JPEG, with audio alarm, 7~22mm motorized vari-focal lens, 50m IR distance, outdoor, IP67, PoE/12VDC/24VAC

Dimensions



(Unit: inch, in the parentheses is mm)