VH310-A2 Series

HD 2MP Intelligent Star light WDR IP Camera

Infinova®
The Integrator's Manufacturer

HD | **2.0** 2.0 Mega Pixels | **1/2.8" CMOS** CMOS | **PoE** | **Day & Night**
H.264 M–JPEG | **H.265 M–JPEG** | **Onvif** | **http://** Web Server
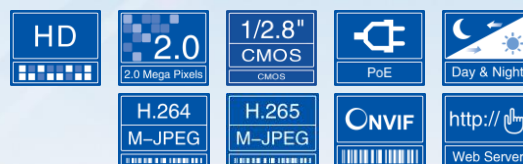
- 1/2.8" CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Supports multi-frame integrated WDR, with a range up to 120dB
- With H.265/ H.264/M-JPEG three encoding formats
- High-resolution image signal output: 1280×960@30fps
- Smart H.265/Smart H.264 applied for a better utilization 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

Utilizing 1/2.8" CMOS sensor and H.265/H.264/M-JPEG video compression formats, Infinova VH310-A2 series HD 2MP Intelligent Star Light WDR IP camera can output high-definition image with resolution up to 1080P@30fps, 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

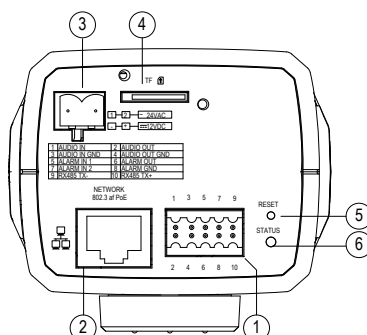|			
Image Sensor	1/2.8" progressive scan CMOS	Density Detection	People gathering detection and density detection
D/N Switch	ICR	Counting	counting for heads/faces/figures/vehicles is supported, queue length detection, customer attention detection
Lens Mount	C/CS		
Auto Iris	DC drive		
Video Compression	H.265 /H.264/M-JPEG	Behavior Analysis	Cross-line detection, intrusion detection, loitering detection, fast movement detection
Max. Coding Capacity	1080P@30fps+720P@30fps+M-JPEG1080P@30fps	Built-in Storage	Micro SD/SDHC/SDXC card (up to 128G)
		Local PC Recording	Available
Data Rate	Variable data rate; Fixed data rate: Major stream: 256Kbps~10240Kbps; Minor stream: 256Kbps~4096Kbps	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
Multi-stream Code	Three-stream independent outputting	Alarm Association	I/O output, email, FTP uploading images, audio, SD card recording, SD card snapshot, and alarm information pushing
Video Rotation	Video can be rotated in 90°, 180° or 270°		
ROI	Up to 8 definable ROI areas		
Network Delay	≤200ms	Operation System	Windows XP, Windows 7, Windows 8
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	Browser	IE8 or above
		Access Protocol	ONVIF Profile S, Profile G, Profile Q, Infinova CGI
		Web Server	Available
		Remote Updating	Available
		Password Protection	Available
S/N Ratio	55dB	RS485 Interface	Available
Shutter	Auto/Manual (1/25~1/32000s)	Analog Video Output	-
Exposure	Auto/Manual/Shutter priority	Network Interface	1 RJ 45 interface, 10M/100M self-adaptive Ethernet port
Sensitivity	Color mode: 0.001lux (AGC ON); B/W mode: 0.0001lux (AGC ON)		
		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 Class 2)/12VDC(±20%)/24VAC(±20%)
Mirror	Horizontal/Vertical		
Corridor Mode	Available	Power	7W
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	-20°C~+60°C
Privacy Mask	Up to 16 definable areas	Storage Temperature	-20°C~+60°C
General Functions	motion detection, camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, color cast detection	Humidity	0%-90% RH (non-condensing)
		Unit Dimensions (H×Ø)	2.52"×2.88"×5.66" (64mm×73.2mm×143.8mm)
		Box Dimensions (L x W x H)	8.07"x4.92"x3.94" (205mm×125mm×100mm)
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	Net Weight	0.79lbs. (0.36kg)
		Shipping Weight	1.01lbs. (0.46kg)

Ordering information

VH310-A2-A0   HD 2MP Intelligent Star Light WDR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.265/H.264/M-JPEG, Audio Alarm, PoE/12VDC/24VAC

Dimensions

5.66(143.8)
5.29(134.3)
NETWORK CAMERA

2.88(73.2)
2.52(64.0)
2.21(56.0)
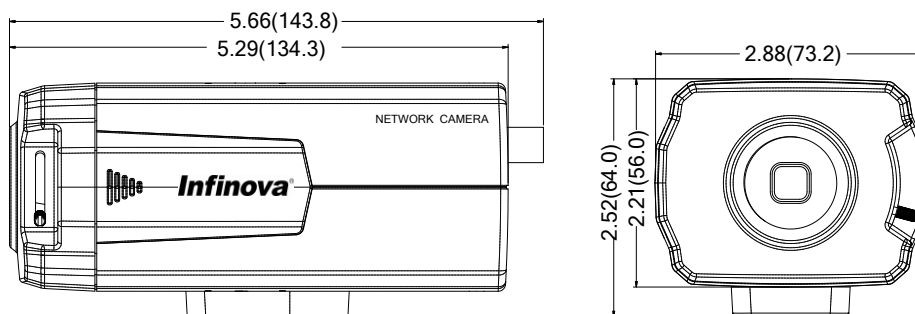
(Unit: inch, in the parentheses is mm)

Back Panel

③ ④
TF
24VAC
12VDC

1	AUDIO IN	2	AUDIO OUT
3	AUDIO IN GND	4	AUDIO OUT GND
5	ALARM IN 1	6	ALARM OUT
7	ALARM IN 2	8	ALARM GND
9	RS485 TX-	10	RS485 TX+

NETWORK
802.3 af PoE
RESET
STATUS
1 3 5 7 9
2 4 6 8 10
⑤
⑥
② ①

①Input/ Output Port   ②Network Port (PoE power supply is optiaonal)
③Power Input Port   ④Micro SD card slot
⑤Reset   ⑥Power LED Indicator

Pin Assignment of ① Input/Output Port

1	Audio In	2	Audio Out
3	Audio Input GND	4	Audio Input GND
5	Alarm In 1	6	Alarm Out
7	Alarm In 2	8	Alarm Out Com
9	RS485TX-	10	RS485TX+