

VT310-A2 Series

HD 2MP Intelligent Starlight WDR IP Camera

Infinova[®]
The Integrator's Manufacturer



- 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: 1920×1080@30fps
- Smart H.265/Smart H.264 applied for a better utilization of broadband resources
- Supports vivid smart functions, switching and running of general smart functions can be applied synchronously:
 - 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: support counting for heads/faces/figures/vehicles, 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 VT310-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

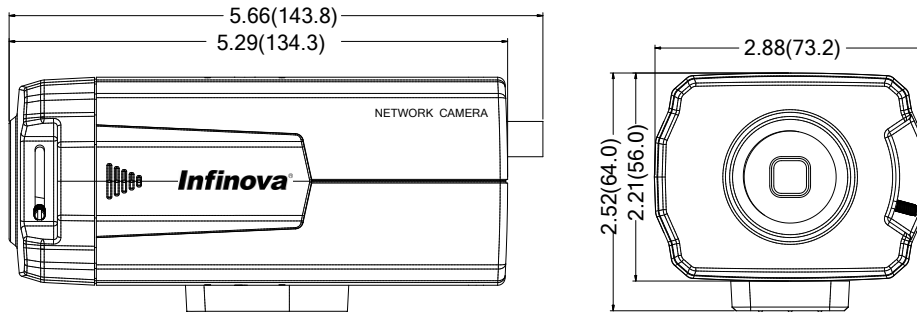
Image Sensor	1/2.8" progressive scan CMOS
D/N Switch	ICR
Lens Mount	C/CS
Auto Iris	DC drive
Video Compression	H.265 /H.264/M-JPEG
Max. Coding Capacity	1080P@30fps+720P@30fps+ M-JPEG1080P@30fps
Data Rate	Variable data rate; Fixed data rate: Major stream: 256Kbps~10240Kbps; Minor stream: 256Kbps~4096Kbps
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 priority
Sensitivity	Color mode: 0.001lux (AGC ON); B/W mode: 0.0001lux (AGC 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
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	Support counting for heads/faces/figures/vehicles,, 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 Class 2)/12VDC (±20%)/24VAC (±20%)
Power	7W
Anti-static	Contact 6KV, air 8KV
Surging Protection	Difference mode 1KV, common mode 2KV
Working Temperature	-4°F~140°F (-20°C~+60°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
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"×4.92"×3.94" (205mm×125mm×100mm)
Net Weight	0.79lbs. (0.36kg)
Shipping Weight	1.01lbs. (0.46kg)

Ordering information

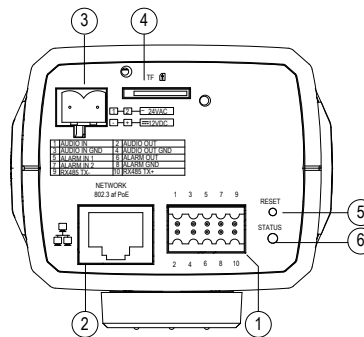
VT310-A2-A0 HD 2MP Intelligent Star Light WDR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.265/H.264/M-JPEG, Audio Alarm, PoE/12VDC/24VAC

Dimensions



(Unit: inch, in the parentheses is mm)

Back Panel



- ① Input/ Output Port
- ② Network Port (PoE power supply is optional)
- ③ Power Input Port
- ④ Micro SD card slot
- ⑤ Reset
- ⑥ Power 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+