VH110-A2 Series

HD 2MP Low Light IP Camera

Infinova®
The Integrator's Manufacturer

HD | 2.0 2.0 Mega Pixels | 1/2.8" CMOS | PoE
Day & Night | H.264 M–JPEG | ONVIF | http:// Web Server

- 1/2.8" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Sensitivity up to 0.008 lux
- High-resolution image signal output: 1920×1080@30fps
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Bi-directional audio, G.711
- Supports WDR function
- Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports corridor mode
- Supports storage with TF card
- Local recording
- 2 alarm inputs, 1 relay output
- Support multiple ways to handle alarms, such as email-sending, FTP upload, audible alarm and relay output
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216, and other video surveillance software

- Onvif Profile S
- Standard SDK is provided for easy integration with other video surveillance software
- With analog video debugging interface

Utilizing 1/2.8" progressive scan CMOS sensor and H.264 High profile/
M-JPEG video compression formats, Infinova's VH110-A2 series HD 2MP low light IP camera can output high-definition image with resolution up to 1080P.

The camera supports the function of strengthening ROI encoding, so as to improve the image quality of key areas under low-band network environment.

The camera supports three simultaneous video streams. It also provides motion detection, privacy mask, video mask alarm, image snapshot, local recording, and storage with TF card, noise deduction, backlight compensation, WDR functions, etc. Alarm can be associated with email sending and FTP upload.

The VH110-A2 series HD 2MP low light IP cameras are widely used in communications, governments, schools, factories, garages, warehouses and other occasions with low light condition and needing high-resolution image quality.

Technical specifications

Image Sensor	1/2.8" progressive scan CMOS
S/N Ratio	50dB
Lens Mount	C/CS
Auto Iris	DC driven
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.05 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.008 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/30s~1/8000s)
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
WDR	100dB
Gain Control	Auto/Manual (maximum: 64X)
Noise Reduction	3D
Mirror	Horizontal/Vertical
Corridor Mode	Available
Video Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	1920×1080@H.264/M-JPEG
Optional Resolution	Major stream: 1920□1080, 1280×960, 1280×720; Minor stream: 640□480, 320□240
Maximum Frame Rate	30fps@1920□1080
Data Rate	Variable bit rate; Constant bit rate: Major stream: 256Kbps~10000Kbps; Minor stream: 256Kbps~2000Kbps

Privacy Mask	Up to 4 masks
Local Recording	Available
Alarm	2 alarm inputs, 1 relay output
Audio	Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)
TF Card Storage	Available, up to 64GB
Upgrade Online	Available
Password Protection	Available
Network Port	One RJ45 10/100M self-adaptive Ethernet port
Analog Video Output	Available, BNC port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Power Supply	PoE (IEEE 802.3af Class 2) / 12VDC/24VAC
Operating Temperature	-4°F~140°F (-20°C~60°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Operating Humidity	0%-95% RH (non-condensing)
Unit Dimensions (HxWxL)	2.52"×2.88"×5.66" (64mm×73.2mm×143.8mm)
Box Dimensions (LxWxH)	8.07"x4.92"x3.94" (205mm×125mm×100mm)
Unit Weight	0.88lbs. (0.40kg)
Shipping Weight	1.32lbs. (0.60kg)

Certifications and Approval

Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-2[1], FCC: Part 15 Subpart B Class A[2], ISO 9001:2008

ROI	Up to 4 regions
Motion Detection	Up to 4 areas

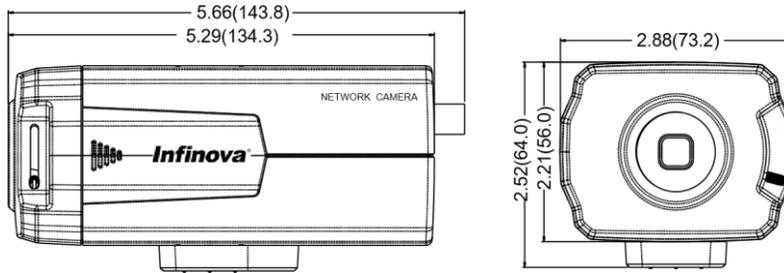Certificate No.: [1]CTL1407151635-EC; [2]CTL1407151635-FC.

Ordering information

VH110-A2-A0   HD Megapixel low-light IP camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, PoE/12VDC/24VAC
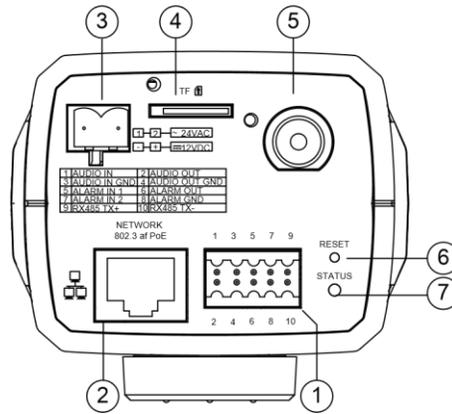
Recommended Mounts
V1551-7   Fixed camera direct mount; 7 inch
V1551-10   Fixed camera direct mount; 10 inch

Dimensions

(Unit: inch, in the parentheses is mm)

Back Panel

①Input/ Output Port   ②Network Port (used for PoE power supply)
③Power Input Port   ④TF card slot
⑤Analog Video Output   ⑥Reset
⑦Power 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+