VH121-A2-A0 Series

HD 2MP WDR IP IR Minidome Camera

Infinova®
The Integrator's Manufacturer

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

H.264 M-JPEG | http:// Web Server | 3-Axis | Vandal Resistant

- 1/2.8" progressive scan CMOS sensor
- Built-in dot matrix IR illuminators, covering up to 30 meters at 850nm wavelength
- Adopts Smart-IR technology thus infrared light power consumption can be adjusted according to ambient illumination
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Motorized zoom lens for Auxillary Focus
- Smart functions, such as video anomaly detection, cross-line detection and intrusion detection
- High-resolution image signal output: 1920×1080@30fps
- Three Simultaneous Video Streams: Dual H.264 4 (High Profile/Main Profile/ Baseline optional) & Scalable M-JPEG
- Superb image quality
- Supports corridor mode
- Supports built-in storage
- Supports WDR function and the dynamic range is 100dB
- Bi-directional audio, G.711-U/G.711-A
- 2 alarm inputs, 1 relay output
- Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible with Infinova digital video surveillance software, and other video surveillance software
- ONVIF Profile S compliant
- Standard SDK is provided for easy integration with other digital system
- New structure design, surface mount; bracket mount can be achieved when using installation accessories
- 3-axis adjustment
- IK10, IP66
- PoE/12VDC/24VAC

- With analog video debugging interface
- Heartbeat loss detection, associated to TF card recording
- Supports multiple ways to trigger alarms, such as IO input, motion detection, video mask, intelligent video analysis; supports flexible alarm associated setting, like I/O output, email, FTP picture uploading, audio and TF recording.

Infinova's VH121-A2-A0 series HD 2MP IP IR minidome camera allow image output resolution up to 1920×1080@30fps. The camera provides excellent resolution and color reproduction, acquires richer and more accurate details and guarantees smart analysis accuracy in a more effective way, which caters for different application needs.

VH121-A2-A0 series camera boasts of rich smart functions, including video anomaly detection, to protect the lens from shielding, deviating, defocusing, intrusion detection (key areas protection), and cross-line detection (border protection), which can apply to various high-end businesses.

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

Compact structure makes it easy to install. Also, this camera provides 3-axis adjustment, easy to adjust the monitoring angle.

The VH120-A2 series HD 2MP low light IP cameras suit prisons, smart buildings, banks, airports, stations, factories, subways and other high-resolution surveillance applications.

Technical specifications

Image Sensor	1/2.8" progressive scan CMOS
Lens	F1.4, f=2.8-12mm vary-focal lens
Lens Port	Φ14
IR Illumination Range and Wavelength	30m, 850nm
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): 0°~72°; Z (Rotating): 0°~360°
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.1Lux @ F1.4 (30IRE, AGC ON); B/W mode: 0Lux@F1.4 (IR ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/1s~1/13000s scalable)
AGC	Auto/Manual
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
S/N Ratio	>50dB
Noise Reduction	3D
WDR	100dB
Video Effect	Corridor mode, Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 (High Profile/Main Profile/ Baseline optional) /M-JPEG
Maximum Resolution	1920×1080@H.264/M-JPEG
Optional Resolution	H.264: Major stream: 1920×1080, 1280×960, 1280×720; Minor stream: 720×576, 640×480, 352×288, 320×240 MJPEG: 1920×1080, 1280×960, 1280×720
Maximum Frame Rate	30fps@H.264 (60Hz) 25fps@H.264 (50Hz)
Data Rate	Variable bit rate; Constant bit rate: Major stream: 32Kbps~10000Kbps; Minor stream: 32Kbps~2000Kbps
Audio Compression	G.711-U/G.711-A
Audio Code Rate	8K, 16K
Mirror Storage	Videos in TF card can automatically be uploaded to VMS or NVR after network reconnected.

Audio Port	1 input, Linear level, Resistance: 1kΩ 1 output, Linear level, Resistance: 600 Ω
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
ROI	Up to 4 regions
Smart Functions	Video anomaly detection, cross-line detection, and intrusion detection
Built-in Storage	Available, 64G TF card is recommended
Web Server	Available
Upgrade Online	Available
Password Protection	Available
IP Address Filter	Available
Network Protocols	Unicast & Multicast
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Access Protocols	ONVIF PROFILE S, CGI
Available Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS
Alarm	2 alarm inputs, 1 relay output
Power Supply	PoE (IEEE 802.3af Class 3) / 12VDC (±15%)/ 24VAC (±25%)
Power Consumption	<10W (with heater)
Operating Temperature	-144°F ~ 158°F (-40°C ~ 70°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	0~95% Relative Humidity (non-condensing)
Unit Weight	1.98lbs. (0.9Kg)
Shipping Weight	2.54lbs. (1.15Kg)
Unit Dimensions (H×Ø)	4.02"×5.43" (102.1mm×137.8mm)
Box Dimensions (L×W×H)	8.03"×6.34"×8.11" (204mm×161mm×206mm)

Certifications and Approval

Product Certifications	IK10: IEC62262[1], CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3[2], FCC: PART 15 Subpart B Class B[3], IP66:ICE/EN 60529[4], UL[5], ISO 9001:2008

Certificate No.: [1]EM150915030RE, [2]CTL1508282495-EC, [3]CTL1508282495-FC, [4] TRS15090056, [5]E232008-A49
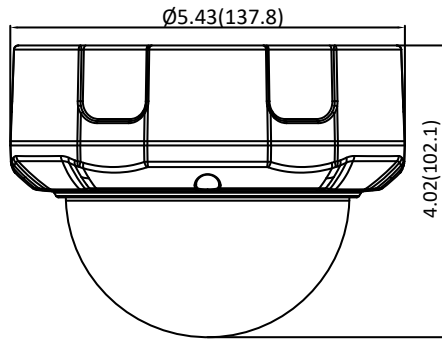
Ordering information

VH121-A20B-A022   HD 2MP WDR IR IP minidome camera, 2Mpx, 1/2.8-inch CMOS sensor, Day/night, H.264/M-JPEG, audio alarm, 2.8-12mm motorized lens, 30m IR Illumination Distance, Surface mount, Clear Bubble, Vandal-resistant, IP66, PoE/12VDC/24VAC
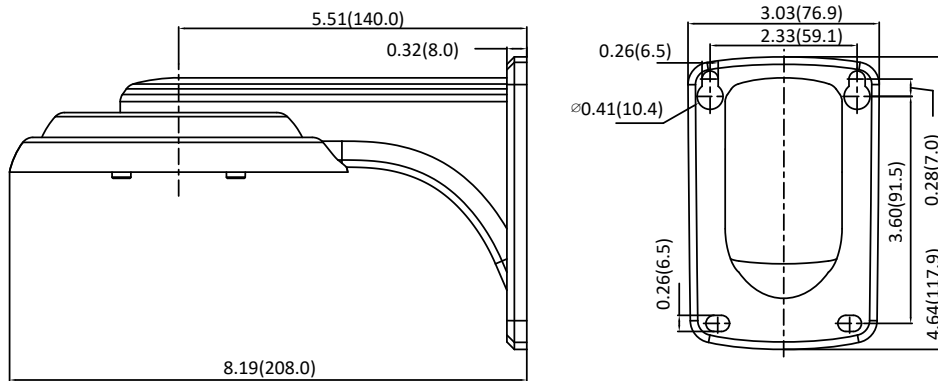
Accessories

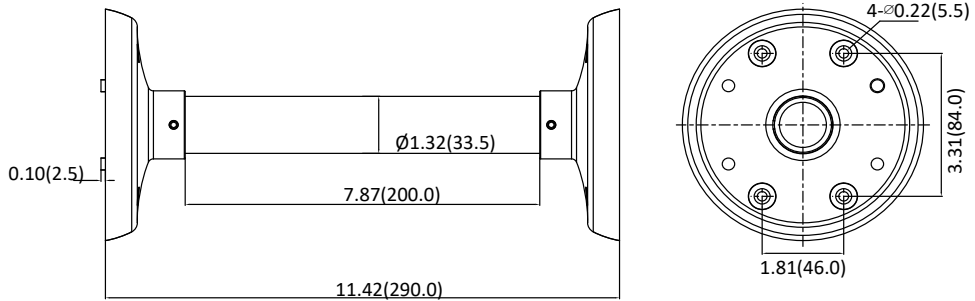V1761HA   Wall Mount
V1764HA   Pendent Mount

Dimensions

Ø5.43(137.8)

4.02(102.1)

Surface Mount

5.51(140.0)

0.32(8.0)

8.19(208.0)

0.26(6.5)

3.03(76.9)

2.33(59.1)

∅0.41(10.4)

0.26(6.5)

3.60(91.5)

0.28(7.0)

4.64(117.9)

Wall Mount

Ø1.32(33.5)

0.10(2.5)

7.87(200.0)

11.42(290.0)

4-∅0.22(5.5)

3.31(84.0)

1.81(46.0)

Pendent Mount

(Unit: inch, in the parentheses is mm)