

# VH111-A2 Series

## HD 2MP WDR IR IP Box Camera

**Infinova**<sup>®</sup>  
The Integrator's Manufacturer



- 1/2.8" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- The maximum IR illumination distance can be up to 50 meters
- Adopts Smart-IR technology thus infrared light power consumption can be adjusted according to the lighting level of surroundings
- Supports WDR function with dynamic range 96dB
- Motorized zoom lens for Auxiliary 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: H.264 (High Profile/Main Profile/ Baseline optional)& Scalable M-JPEG
- Superb image quality
- Supports corridor mode
- Supports built-in storage
- Bi-directional audio, G.711-U/G.711-A
- 2 alarm inputs, 1 on-off output
- Supports multiple ways to trigger alarms, such as IO input, motion detection, smart video analysis, etc.
- Supports flexible alarm associated settings, such as I/O output, email-sending, FTP picture uploading, audio, and TF card recording.
- Heartbreak loss detection, associated to TF card recording
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Up to four ROI (Region of Interest) areas
- Supports 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
- IP66 environmental rating
- PoE/12VDC/24VAC
- with analog video output

Infinova VH111-A2-A0 series HD 2MP WDR IR IP box camera allows 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. VH111-A2-A0 series camera boasts of rich smart functions, including video anomaly detection, to protect the lens from shielding, deviating, and 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.

The camera suits prisons, buildings, banks, airports, stations, factories, enterprises, metro, intelligent traffic, highway and other high-resolution surveillance applications.

## Technical specifications

Image Sensor	1/2.8" progressive scan CMOS
Lens	F1.4, f=2.8-12mm, f=7~22mm motorized zoom lens
Lens Port	Φ14
IR Wavelength	850nm
IR Illumination Distance	50m
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.1Lux @ F1.4 (30IRE, AGC ON); B/W mode: 0 Lux (IR ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/1s~1/13000s)
Slow Shutter	Available
AGC	Auto/Manual
White Balance	Auto/Manual/Incandescent light/Fluorescent light/Sun light/Cloudy/Natrium light
Noise Reduction	3D
WDR	96dB
Video adjustment	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, 720×576; 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~1000Kbps; Minor stream: 32Kbps~2000Kbps
Network Delay	≤180ms
Audio Compression	G.711-U/G.711-A

Audio Code Rate	8K, 16K
Audio Port	1 input, Linear level, Resistance: 1000Ω; 1 output Linear level, Resistance: 600Ω
Web Server	Available
Upgrade Online	Available
Password Protection	Available
Smart Functions	Video anomaly detection, cross-line detection
Built-in Storage	Available, 64G TF card is recommended.
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
ROI	Up to 4 regions
Access Protocols	ONVIF Profile S, CGI
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
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
IP address Filter	Available
Alarm	2 alarm inputs, 1 on-off output
Power Supply	PoE (IEEE 802.3af Class 3) / 12VDC (±15%) / 24VAC (±25%)
Power Consumption	<10W (with heater)
Operating Temperature	-40°F ~ 140°F (-40°C ~ 60°C) (with heater)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	0%~95% Relative Humidity (Non-condensing)
Unit Dimensions (L×W×H)	11.83"×3.54×3.33" (300.4mm×90mm×84.6mm)
Box Dimensions (L×W×H)	5.12"×5.98×14.96" (130mm×152mm×380mm)
Unit Weight	2.10lbs. (0.95Kg)
Shipping Weight	2.76lbs. (1.25Kg)

### Certifications and Approval

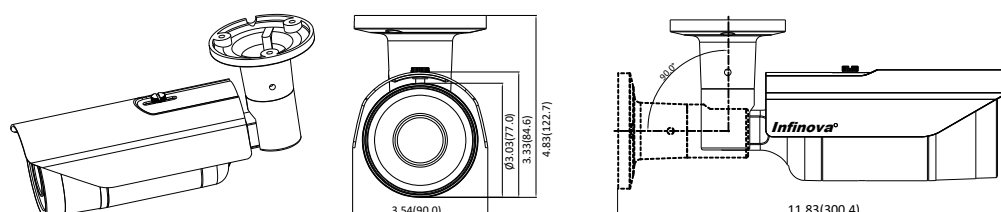
Product Certifications	ROHS, IK10:IEC 62262 <sup>1</sup> , IP66: IEC/EN 60529 <sup>2</sup> , CE/EMC: EN55022, EN 55024, EN 61000-3-2, EN 61000-3-3 <sup>3</sup> , FCC: PART 15 Subpart B Class A4, UL <sup>5</sup> , ISO 9001:2008
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<sup>1</sup>EM15091503IRE, <sup>2</sup>TRS 15090055, <sup>3</sup>CTL 1508042158-EC, <sup>4</sup>CTL 1508042158-FC, <sup>5</sup>E232008-A49

## Ordering information

VH111-A20B-A0	HD 2MP WDR IR IP box 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, IP66, PoE/12VDC/24VAC
VH111-A20E-A0	HD 2MP WDR IR IP box camera, 2Mpx, 1/2.8 inch CMOS sensor, Day/night, H.264/M-JPEG, audio alarm, 7-22mm motorized lens, 50m IR Illumination Distance, IP66, PoE/12VDC/24VAC

## Dimensions



(Unit: inch, in the parentheses is mm)