

# VH111-A2-A0 Series

## 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 30 meters
- Adopts Smart-IR technology thus infrared light power consumption can be adjusted according to the lighting level of surroundings
- Supports WDR function and the dynamic range is 100dB
- 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 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
- Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with digital video surveillance software, and other video surveillance software
- ONVIF Profile S
- Standard SDK is provided for easy integration with other digital system
- Unicast & Multicast
- IP66, IK10
- PoE/12VDC/24VAC
- Supports analog video output

Infinova's VH111-A2-A0 series 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, 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 VH111-A2-A0 series 2MP WDR IR IP box camera suits 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, motorized zoom lens  |
| Lens Port                | Φ14  |
| IR Wavelength            | 850nm  |
| IR Illumination Distance | 30m  |
| Day/Night Functionality  | ICR  |
| Sensitivity              | Color mode: 0.05Lux @ F1.4 (30IRE, AGC ON);<br>B/W mode: 0 Lux (IR ON)   |
| Exposure                 | Scene mode, Manual mode, Shutter priority mode   |
| Shutter                  | Auto/Manual (1/1s~1/13000s)  |
| AGC                      | Auto/Manual  |
| White Balance            | Auto/Manual/Incandescent light/Cool white<br>fluorescent light/Sun light/Cloudy/Natrium light  |
| BLC                      | Support  |
| SNR                      | >50dB  |
| Noise Reduction          | 3D   |
| WDR                      | 100dB  |
| Video adjustment         | Corridor mode, Brightness, sharpness, hue, contrast,<br>saturation adjustable  |
| Video Compression        | H.264 (High Profile/Main Profile/ Baseline<br>optional)/M-JPEG   |
| Maximum Resolution       | 1920×1080@H.264/M-JPEG   |
| Optional Resolution      | H.264:<br>Major stream: 1920×1080, 1280×960, 1280×720,<br>720×576;<br>Minor stream: 704×576, 640×480; 352×288, 320×240<br>MJPEG: 1920×1080, 1280×960, 1280×720 |
| Maximum Frame Rate       | 30fps@H.264 (60Hz);<br>25fps@H.264 (50Hz)  |
| Data Rate                | Variable bit rate;<br>Constant bit rate:<br>Major stream: 32Kbps~10000Kbps;<br>Minor stream: 32Kbps~2000Kbps   |
| Audio Compression        | G.711-U/G.711-A  |
| Audio Code Rate          | 8K   |
| Audio Port               | 1 input (Linear level, Resistance: 1000ohm)<br>1 output (Linear level, Resistance: 600ohm)   |

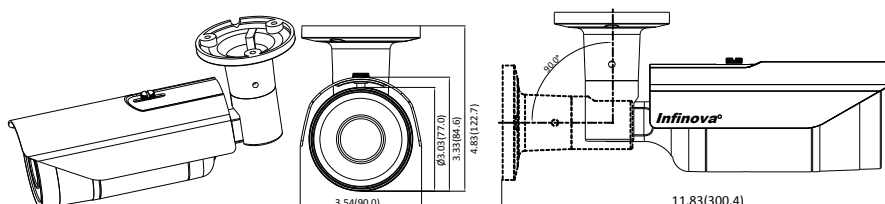
|                                    |  |
|------------------------------------|--|
| Web Server                         | Available  |
| Upgrade Online                     | Available  |
| Password Protection                | Available  |
| Smart Functions                    | Video anomaly detection, cross-line detection, and<br>intrusion detection  |
| Built-in Storage                   | Available, 64G TF card is recommended; snap-shots<br>and records are storable  |
| Motion Detection                   | Up to 4 areas  |
| Privacy Mask                       | Up to 4 masks  |
| ROI                                | Up to 4 regions  |
| Access Protocols                   | ONVIF Profile S, GB28181, CGI  |
| Network Protocols                  | Unicast & Multicast  |
| Network Port                       | 1 RJ45 10/100M self-adaptive Ethernet port   |
| Available Protocols                | IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3),<br>SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL,<br>802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS  |
| Alarm                              | 2 alarm inputs, 1 on-off output  |
| Power Supply                       | PoE (IEEE 802.3af Class 3) / 12VDC (±15%) / 24VAC<br>(±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   |
| 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)  |
| <b>Certifications and Approval</b> |  |
| Product Certifications             | ROHS, IK10:IEC 62262, IP66: IEC/EN 60529 <sup>2</sup> , CE/EMC:<br>EN55022, EN 55024, EN 61000-3-2, EN 61000-3-3 <sup>3</sup> ,<br>FCC: PART 15 Subpart B Class A <sup>4</sup> , UL <sup>5</sup> , ISO 9001:2008 |

<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 Megapixel 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

## Dimensions



(Unit: inch, in the parentheses is mm)