

VH111-B2XX-Y SERIES

HD 2MP LOW LIGHT WDR IR IP BOX CAMERA

Infinova[®]



FEATURES

- 1/2.9" 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
- Support multi-frame integrated WDR, with a range up to 120dB
- H.265/H.264/M-JPEG/SVC encoding
- High-resolution image signal output: 1920×1080@30fps
- Support Smart H.265/Smart H.264 encoding for efficient broadband utilization
- Support vivid smart functions such as General Intelligence, Density Monitoring, Counting Application, Behaviour Analysis, Object abandoned detection
- Local PC recording
- Support multiple ways to trigger alarms, such as smart analysis, network disconnection and heartbeat loss
- Up to 8 ROI (Region of Interest) areas
- Up to 4 definable privacy mask areas
- Support corridor mode
- Support simultaneous access and parameter setting via Web Server from multiple clients
- ONVIF Profile S/G &T compliant
- PoE/12VDC
- IP66 environmental rating

DESCRIPTION

Infinova VH111-B2 Series HD 2MP Intelligent Low Light WDR IR IP Camera applies 1/2.9-inch CMOS sensor and embedded HD fixed-focus lens (4mm/6mm/8mm optional). Backed by dot-matrix IR LED, the product supports an IR illumination distance up to 50m. The power can be adjusted according to ambient lighting conditions with results of power assumption reduced and service life extended.

With H.265/H.264/M-JPEG/SVC video compression formats and three-stream encoding, the camera can output high-quality images with resolution up to 1080P@30fps, providing marvelous definition, color restoration and more accurate image details.

The product adopts self-developed deep-learning algorithm and supports various smart analysis functions, including video exception detection, face detection, counting, crowd detection and behavior analysis etc. Thus, the camera is applicable for various high-end commercial applications.

The camera can be widely used in ordinary buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other occasions with low light condition but requiring high-quality images.

TECHNICAL SPECIFICATIONS

Lens (Visible)		Audio Interface	
Image Sensor	1/2.9" progressive scan CMOS	Two-way Audio	-
Optical Zoom	-	Mic & Speaker	-
Digital Zoom	-	Image	
Focal Length	f= 2.8mm, 4mm, 6mm, 8mm	Shutter	Auto/Manual (1/1s~1/32,000s)
Iris	F2.0	WDR	Up to 120dB
Focus	Fixed	Exposure	Auto/Manual/Shutter
FOV(H/V/D)	2.8mm - H:102.4°; V:54.9°; D:121.3°;	Sensitivity	Color mode: 0.01 Lux@ F2.0(AGC ON);
	4mm - H:88°; V:47°; D:106°;		B/W mode:0.001 Lux@ F2.0(AGC ON);
	6mm - H:51.2°; V:28.6°; D:59°;		0Lux (IR ON)
	8mm - H:39°; V:22°; D:44°		
Lens Mount	M12	White Balance	Auto/Manual/Outdoor
Lens (Thermal)		Video Adjustment	Brightness, contrast, saturation, hue, sharpness
Imager Type	-	Noise Reduction	3D
Lens Type	-	S/N Ratio	≥55dB
Spectral Band	-	Defog	Available
Pixel Size	-	EIS	Available
NETD	-	Mirror	Horizontal/Vertical
Focal Length	-	Corridor Mode	Available by video rotation
FOV	-	Day/Night Switching	ICR
Video		AGC	Auto/Manual, up to 64X
Camera Resolution (Visible Lens)	2MP	BLC	Available
Camera Resolution (Thermal Lens)	-	HLC	Available
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265- 30fps@1920x1080 Minor stream: H.264/H.265- 30fps@1280x720 Third stream: M-JPEG- 30fps@1920x1080	Privacy Mask	Up to 4 definable zones
Max. Coding Capacity (Thermal Lens)	-	ROI	Up to 8 definable zones
Data Rate	VBR/CBR Major stream: 128Kbps~10240Kbps; Minor stream: 128Kbps~4096Kbps	OSD	Supported
		Pan/Tilt Functions	
Video Compression	H.265/H.264/M-JPEG/SVC independent coding	Preset	-
Multi-Streaming	Three - stream independent output	Pattern	-
Video Rotation	Video can be rotated by 90°, 180° or 270°	Autopan	-
Audio		Normal Tour	-
Audio Compression	G.711-A, G.711-U, AAC	Home Return	-
Sample Rate	8KHz (for G.711-A/G.711-U), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)	Timing Tour	-
		Autoscan	-
		Area Zoom	-
		IR Illumination	
		Smart-IR	Available
		Wave Length	850nm
		Night Vision Distance	50m
		Temperature Measurement	
		Screening Function	-
		Function	-

TECHNICAL SPECIFICATIONS

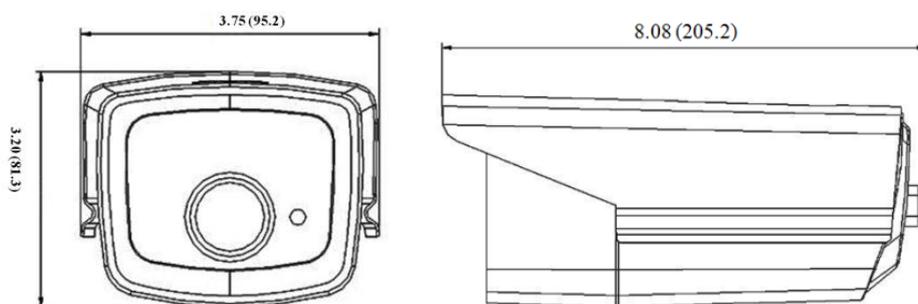
Measurement	-
Measurement Distance	-
Measurement Range	-
Accuracy	-
Smart Analytics	
Video Analytics	<p>Video Anomaly Detection-Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, and motion detection</p> <p>Behaviour Analysis Detection - Wire crossing detection, intrusion detection, object abandoned detection, object lost detection, loitering detection, crowd detection, fast moving detection, target stop detection, and fall over detection</p> <p>Sound Detection - Abnormal sound detection and fight detection</p> <p>Statistics Detection - Counting, density detection, queue length detection and dwelling detection</p> <p>Intelligent Grouping Detection- Behaviour analysis grouping, face capture grouping.</p> <p>Face capture - Supports face detection, tracking and capturing.</p> <p>Optimum Selection- Supports optimum selection and duplicate removal for captured target images to deliver the best-quality images.</p> <p>Face Exposure - Available</p> <p>Face attributes - gender, glasses, eyes open, mask, mouth open</p>
Storage	
Storage Slots	-
Built-in Storage	-
NAS Storage	-
Local PC Recording	Available
Alarm	
Alarm Ports	-
Alarm Input	I/O input, smart detection, SD card removal, SD card full of videos, SD card full of images, network disconnection, and heartbeat loss
Alarm Association	Email, image upload via FTP, image upload via HTTP and alarm info push
System Functions	
Operating System	Win 7 and higher versions
Browser	IE8 and higher versions
Access Protocol	ONVIF Profile S/G/T, CGI 2.7
Multiple Access	Up to 20-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	-
Analog Video Output	-
Maximum Number of Users	64, with 3 types of users available: administrator, normal user, and operator
Wiper	-
Network	
Network Interface	1 RJ45 10M/ 100M self-adaptive Ethernet port

Network Protocols	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
IP Address Filtering	Available
Network Delay	≤200ms
Environmental	
Anti-Static	Air discharge: 8KV, contact discharge: 6KV
Surge Protection	Difference mode: ±1KV, common mode: ±2KV
Operating Temperature	-40°F~140°F (-40°C~+60°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP66
Impact Resistance	IK10
Mechanical	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
Electrical	
Power Supply	PoE (IEEE 802.3af Class 2) /12VDC
Power Consumption	<12W
Physical	
Product Dimension (L×W×H) or (H x D)	3.20"×3.75"×8.08" (81.3mm×95.2mm×205.2mm)
Package Dimension (L x W x H)	12.05"×6.89"×5.75" (306mm×175mm×146mm)
Unit Weight	1.37lbs. (0.62kg)
Shipping Weight	1.87lbs. (0.85kg)
Certifications	
Product Certifications	CE; FCC; IK10; IP66; RoHS

ORDERING INFORMATION

VH111-B202-Y0	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 2.8mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, PoE/12VDC
VH111-B202-Y4	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 2.8mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, 12VDC
VH111-B204-Y0	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 4mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, PoE/12VDC
VH111-B204-Y4	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 4mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, 12VDC
VH111-B206-Y0	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 6mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, PoE/12VDC
VH111-B206-Y4	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 6mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, 12VDC
VH111-B208-Y0	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 8mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, PoE/12VDC
VH111-B208-Y4	HD Megapixel Smart IR IP Box Camera, 2MP, 1/2.9" CMOS, Day/night, H.265/H.264/M-JPEG/SVC, 8mm lens, IR illumination distance up to 50m, Outdoor, IP66, With pigtail (RJ45 and power), With audio input, Audio alarm, 12VDC
Accessories	
Mount	
V1554-6N-1	Wall Mount for VH111-B and VH211-B Series IP Box Camera, indoor/outdoor, cantilever length 6 inches, rotation horizontal 360°, vertical 0-60°, d mounting hole distance 25.5 ~ 53.5mm
Power Supply	
N3921-12D-1	AC to DC Power Supply, Plug-In, 230VAC, Output 12VDC, 1.5A
N3922-30P-2	Smart POE Injector, 100VAC-240VAC input, 30W output

DIMENSIONS



(Unit: inch, in the parentheses is mm)