

VH231-A2 SERIES

HD 2MP SMART STARLIGHT WDR IR IP PTZ DOME CAMERA

Infinova®



FEATURES

- Built-in 33X HD integrated camera module
- 1/2.8" progressive-scanning CMOS sensor
- ICR infrared filter automatic switching to realize true day/night surveillance
- Starlight-level ultra-low illumination: 0.0005 lux
- Embedded high-efficiency IR light with a wavelength of 850nm, ensuring long period time of stable use and reducing maintenance charge
- The night vision can reach 300m
- The output power of the IR light can be automatically adjusted according to the lighting intensity of a scene (Smart IR)
- Supports frame integration WDR, with dynamic range up to 132dB
- The maximum resolution is up to 1920×1080 @ 60fps
- Features smart functions to achieve border protection such as wire cross, intrusion
- Supports intelligent tracking
- H.265+M-JPEG or H.264+M-JPEG video encoding, three streams
- Supports internal storage
- Supports alarm recording and alarm snapshots
- Bi-directional audio, G.711-A/G.711-U/AAC standard optional (-W model)
- Two alarm inputs and one alarm output (-W model)
- Supports motion detection, 4 detecting areas dividable
- Supports Region of Interest (ROI), 8 regions dividable
- OSD Color optional
- Allows multiple users to perform live access and parameters settings via Web Server
- Supports preset, autopan, pattern, autoscan, time tour, normal tour, power-on return, etc.
- Supports ONVIF Profile S & G standard
- Supports RS485 control and analog video output for easy debugging
- IP66 protection rate, inbuilt a heater and air circulation system to avoid icing
- Supports remote network

DESCRIPTION

VH231-A2 series HD IR IP dome camera provides high quality video with the resolution up to 1920x1080@60fps, adopts H.265/H.264/M-JPEG compression formats, and boasts of excellent resolution and Color reproduction ability to ensure richer and more accurate details to be acquired and also guarantee the accuracy of intelligent analysis in a more effective way.

This product adopts large power LED infrared lamps, of 850nm infrared wave length, long night vision distance up to 300m and strong illumination. The IR lamps can turn on or off automatically based on environmental lighting conditions or can be adjusted manually. The IR illumination allows flexible adjustment so as to reduce IR lamp calorific value and extend its service life.

User-friendly GUI interface design allows users to perform dome PTZ control easily via network and to configure detailed camera parameters settings. At Web interface users can perform dome camera settings and operations by using a mouse which is more convenient than the traditional keyboard control. It also supports area zoom and image PTZ function.

VH231-A2 series dome cameras also feature general dome functions such as preset, pattern, autopan, autoscan, time tour and normal tour.

TECHNICAL SPECIFICATIONS

Lens (Visible)		Audio Interface	
Image Sensor	1/2.8" Sony progressive scanning CMOS	1 input, linear level, impedance: 1kΩ	
Optical Zoom	33X	1 output, linear level, impedance: 600Ω	
Digital Zoom	12X	Two-way Audio	
Focal Length	f=4.6~152mm	Mic & Speaker	
Iris	F1.6~F5.5	-	
Focus	Auto/Manual	Image	
FOV(H/V/D)	H: 62.10° ~ 1.88°; V: 36.83° ~ 1.09°; D: 69.10° ~ 2.17°	Shutter	
Lens Mount	-	Auto/Manual (1/1~1/32000s)	
Lens (Thermal)		WDR	
Imager Type	-	Up to 132dB	
Lens Type	-	Exposure	
Spectral Band	-	Auto/Manual/Shutter	
Pixel Size	-	Color mode: 0.001 lux @ F1.6 (AGC ON)	
NETD	-	B/W mode: 0.0001 lux @ F1.6 (AGC ON);	
Focal Length	-	0 lux (IR on)	
FOV	-	Sensitivity	
Video		White Balance	
Camera Resolution (Visible Lens)	2MP	Auto/Manual/Outdoor	
Camera Resolution (Thermal Lens)	-	Video Adjustment	
Max. Coding Capacity (Visible Lens)	Major stream: H.265/H.264- 60fps@1920x1080 Minor stream: H.265/H.264- 30fps@1920x1080 Third stream: M-JPEG - 30fps@1920x1080	Brightness, contrast, saturation, chroma, sharpness	
Max. Coding Capacity (Thermal Lens)	-	Noise Reduction	
Data Rate	VBR/CBR Major stream: 256Kbps~10240Kbps Minor stream: 256Kbps~2048Kbps	3D	
Video Compression	H.265/H.264/M-JPEG independent coding	S/N Ratio	
Multi-Streaming	Three stream independent output	>62dB	
Video Rotation	Video can be rotated by 90°, 180°	Defog	
Audio		Available	
Audio Compression	G.711-A/ G.711-U/ AAC	EIS	
Sample Rate	8KHz (for G.711-A/G.711-U) 16KHz, 32KHz, 44.1KHz or 48KHz (for AAC)	Available	
		Mirror	
		Corridor Mode	
		Day/Night Switching	
		ICR	
		AGC	
		Available	
		BLC	
		Available	
		HLC	
		Available	
		Privacy Mask	
		Up to 4 definable zones	
		ROI	
		Up to 8 definable zones	
		OSD	
		Supported	
		Pan/Tilt Functions	
		Preset	
		1024	
		Pattern	
		12	
		Autopan	
		12	
		Normal Tour	
		16 groups (each tour can link to 14 actions, optional with Presets 1~32, Patterns 1~4 and Autopans 1~4)	
		Home Return	
		Available	
		Timing Tour	
		Available	
		Autoscan	
		Available	
		Area Zoom	
		Available	
		IR Illumination	
		Smart-IR	
		Available	
		Wave Length	
		850nm	

TECHNICAL SPECIFICATIONS

Night Vision Distance	300m
Temperature Measurement	
Screening	-
Function	-
Measurement	-
Measurement Distance	-
Measurement Range	-
Accuracy	-
Smart Analytics	
Video Analytics	Motion detection - Up to 4 detection areas Smart Video Analysis - Wire cross, area intrusion Intelligent Tracking - Rule-triggered tracking and manual-triggered tracking
Storage	
Storage Slots	Supports dual cards
Built-in Storage	Up to 512GB
NAS Storage	-
Local PC Recording	Available
Alarm	
Alarm Ports	2 alarm inputs, 1 on/off output
Alarm Input	I/O input, motion detection, intelligent analysis, SD card removal, network disconnection, heartbeat loss
Alarm Association	I/O output, email, FTP picture uploading, audio, SD card snapshot, SD card recording
System Functions	
Operating System	Win 7 or above versions
Browser	IE8 or above versions
Access Protocol	ONVIF Profile S & G, CGI
Multiple Access	Up to 5-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	Supports, 1*RS485
Analog Video Output	Supports, 1*BNC port
Maximum Number of Users	32, with 3 types of users available: administrator, normal user, and operator

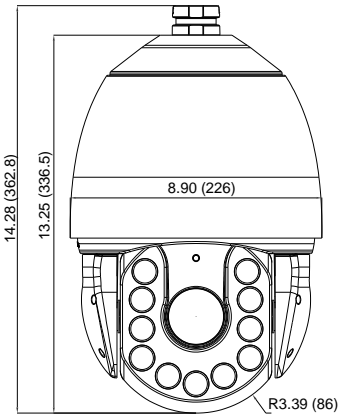
Wiper	-
Network	
Network Interface	1* RJ45 10/100M self-adaptive Ethernet port
Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TLS, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
IP Address Filtering	Support blacklist and whitelist filtering
Network Delay	<140ms
Environmental	
Anti-Static	±8KV
Surge Protection	±4KV (Ethernet port, power port)
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	-
Mechanical	
Manual Speed	Pan: 0.1° ~500°/s; Tilt: 0.1° ~ 100°/s
Preset Speed	Up to 200°/s
Rotation Angle	Pan: 360°; Tilt: -8° ~ 90°
Preset Accuracy	<0.1°
Electric Motor	Stepping motor
Electrical	
Power Supply	24VAC/24VDC/PoE++(IEEE 802.3bt type2 class4
Power Consumption	<54W (IR ON); <22W (IR OFF)
Physical	
Product Dimension (L×W×H) or (H x D)	14.28" × 8.9" (362.8mm × Φ226mm)
Package Dimension (L x W x H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Unit Weight	10.80lbs. (4.90kg)
Shipping Weight	14.22lbs. (6.45kg)
Certifications	
Product Certifications	CE, FCC, IP66

ORDERING INFORMATION

VH231-A233-B361W	HD Megapixel IR IP PTZ Dome Camera, Starlight, WDR, Smart, 2MP, 33X, 1/2.8" CMOS, Day/night, H.265/H.264/M-JPEG, With audio alarm, Outdoor, Bracket mount, 24VAC/24VDC/PoE++
Note: The installation bracket shall be purchased separately.	
Accessories	
Mount	
V1761H	Wall mount bracket
V1764H	Pendant mount bracket
Power Supply	
N3922-24D-3	AC to DC Power Supply, Plug-In, 230VAC, Output 24VDC, 3A
N3922-24A-3	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 3A

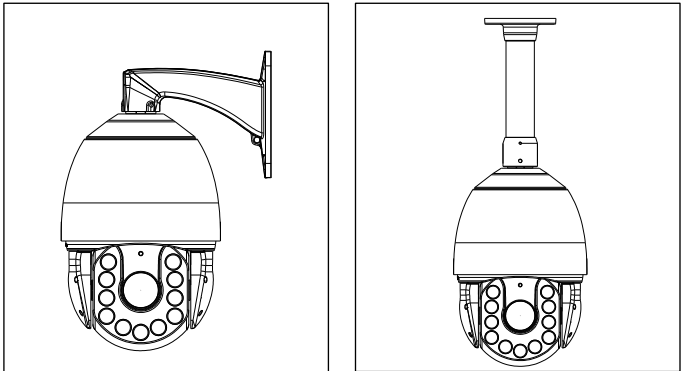
***Note:** - "Confirmation of SD Card installation has to be notified with the Camera Purchase Order. Such confirmation if received on Order Readiness will attract additional cost. Please contact Infinova to know more".

DIMENSIONS



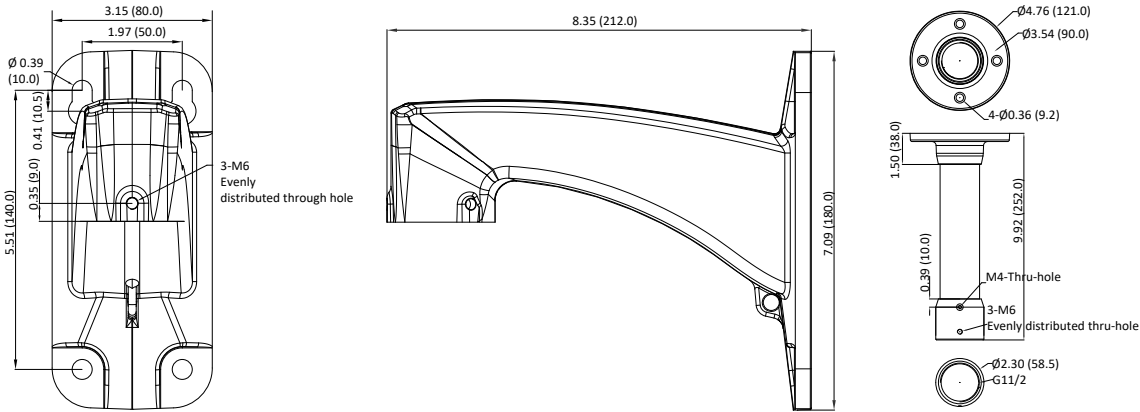
(Unit: inch, in the parentheses is mm)

MOUNTING



Wall Mount

Pendant Mount



(Unit: inch, in the parentheses is mm)

