VH220-A20B-P022

HD 2MP STARLIGHT WDR IP MINIDOME CAMERA

Infinova®

2.0 Mega Pixels | Smart | 1/2.8" CMOS | H.265 M–JPEG | H.264 M–JPEG | SVC

IK10 | UL | IP67 | Day & Night | Web Server | PoE

FEATURES

- 1/2.8" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Support multi-frame integrated WDR, with a range up to 120dB
- Embedded with motorized zoom lens; support auxiliary focus adjustment
- 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 video anomaly detection, behaviour-analysis detection, sound detection, statistics detection, Intelligent grouping detection
- Bi-directional audio, G.711-U/G.711-A/AAC
- Local PC recording
- Micro SD card
- Support multiple ways to trigger alarms, such as I/O input, smart analysis, SD card removal, SD card full of videos, SD card full of images, network disconnection and heartbeat loss
- Support flexible alarm associated settings: like I/O output, email, image upload via FTP, audio, SD card recording, SD card snapshot and alarm info push
- 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/24VAC
- IK10 vandal-proof rating
- IP67 environmental rating for outdoor use
- UL

DESCRIPTION

Infinova VH220-A2 Series HD 2MP Intelligent Starlight WDR IP Minidome Camera applies 1/2.8-inch CMOS sensor and embedded 2.7~13.5mm HD motorized vari-focal lens.

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, tracking and capturing, counting, crowd detection and behaviour analysis etc. Thus, the camera is applicable for various high-end commercial application.

The camera can be widely used in ordinary buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses and other occasions.

TECHNICAL SPECIFICATIONS

Lens (Visible)	
Image Sensor	1/2.8" progressive scan CMOS
Optical Zoom	-
Digital Zoom	-
Focal Length	f=2.7~13.5mm
Iris	F1.6, Auto
Focus	Support network auxiliary adjustment
FOV(H/V/D)	H:53.2°~18.6°; V:104°~33.2°; D:123.2°~38°
Lens Mount	Φ14

Lens (Thermal)	
Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-
FOV	-

Video	
Camera Resolution (Visible Lens)	2MP
Camera Resolution (Thermal Lens)	-
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@1920×1080
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 128Kbps~10240Kbps; Minor stream: 128Kbps~4096Kbps
Video Compression	H.265 /H.264/M-JPEG/SVC independent coding
Multi-Streaming	Three-stream independent output
Video Rotation	Video can be rotated by 90°, 180° or 270°

Audio	
Audio Compression	G.711-A/ G.711-U/ AAC
Sample Rate	8KHz (for G.711-A/G.711-U), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)
Audio Interface	1 input, Linear level; 1 output, Linear level
Two-way Audio	Supported
Mic & Speaker	-

Image

Shutter	Auto/Manual (1/1s~1/32,000s)
WDR	Up to 120dB
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.005 Lux@ F1.6(AGC ON, fill-in light OFF); B/W mode: 0.003 Lux@ F1.6(AGC ON, fill-in light OFF)
White Balance	Auto/Manual/Outdoor
Video Adjustment	Brightness, Contrast, Saturation, Hue, Sharpness adjustable
Noise Reduction	3D
S/N Ratio	≥62dB
Defog	Available
EIS	Available
Mirror	Horizontal/Vertical
Corridor Mode	Available by video rotation
Day/Night Switching	ICR
AGC	Auto/Manual, up to 64X
BLC	Available
HLC	Available
Privacy Mask	Up to 4 definable zones
ROI	Up to 8 definable zones
OSD	Supported

Pan/Tilt Functions	
Preset	-
Pattern	-
Autopan	-
Normal Tour	-
Home Return	-
Timing Tour	-
Autoscan	-
Area Zoom	-

IR Illumination	
Smart-IR	-
Wave Length	-
Night Vision Distance	-

Temperature Measurement	
Screening	-
Function	-
Measurement	-
Measurement Distance	-
Measurement Range	-
Accuracy	-

TECHNICAL SPECIFICATIONS

Smart Analytics

Video Analytics	Video Anomaly Detection-Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, and motion detection 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 Sound Detection - Abnormal sound detection and fight detection Statistics Detection - Counting, density detection, queue length detection and dwelling detection Intelligent Grouping Detection- Behaviour analysis grouping, face capture grouping. Face capture - Supports face detection, tracking and capturing. Optimum Selection- Supports optimum selection and duplicate removal for captured target images to deliver the best-quality images. Face Exposure - Available Face attributes - gender, glasses, eyes open, mask, mouth open

Storage

Storage Slots	Supports single card
Built-in Storage	Up to 256GB
NAS Storage	-
Local PC Recording	Available

Alarm

Alarm Ports	2 alarm inputs, 1 on-off output
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	I/O output, email, image upload via FTP, image upload via HTTP, SD card snapshot, SD card recording, and alarm info push

System Functions

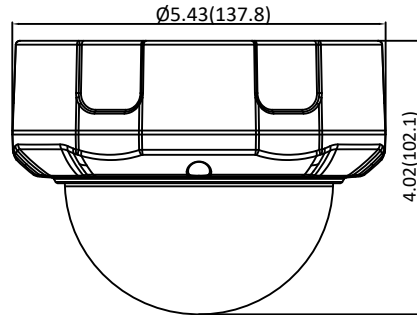|	
Operating System	Win 7 and higher versions
Browser	IE8 and higher versions
Access Protocol	ONVIF Profile S/G/T, Infinova CGI
Multiple Access	Up to 20-ch simultaneous access
Web Server	Available
Remote Upgrade	Available

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	−40°F~140°F (-40°C~+60°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP67
Impact Resistance	IK10

Mechanical

Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-

Electrical

Power Supply	PoE (IEEE 802.3af Class 2) /12VDC/24VAC
Power Consumption	<12W

Physical

Product Dimension (L×W×H) or (H x D)	4.02" × 5.43" (102.1mm×137.8mm)
Package Dimension (L x W x H)	8.03" × 6.34" × 8.11" (204mm×161mm×206mm)
Unit Weight	1.98lbs. (0.9Kg)
Shipping Weight	2.54lbs. (1.15Kg)

Certifications

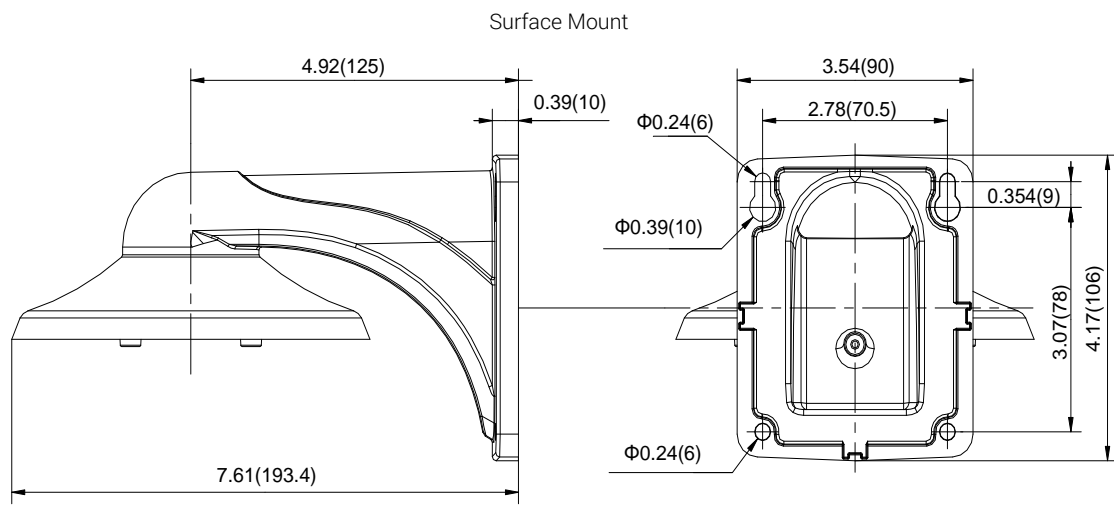|	
Product Certifications	CE; FCC; IP67; IK10; RoHS; UL

ORDERING INFORMATION

VH220-A20B-P022	HD IP Minidome Camera, 2MP, 1/2.8" CMOS, Day/night, WDR, Starlight, Smart, Face capture, Mask recognition, H.265/H.264/M-JPEG/SVC, 2.7~13.5mm motorized lens, With audio alarm, Outdoor, Surface mounting, PoE/12VDC/24VAC

Accessories	
Mount	
V1761HA	Wall-mounting bracket
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
N3921-24A-2	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 1A

*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

Ø5.43(137.8)

4.02(102.1)

MOUNTING

Surface Mount

4.92(125)

0.39(10)

Φ0.24(6)

2.78(70.5)

3.54(90)

0.354(9)

Φ0.39(10)

3.07(78)

4.17(106)

Φ0.24(6)

7.61(193.4)

Wall Mount
(Unit: inch, in the parentheses is mm)