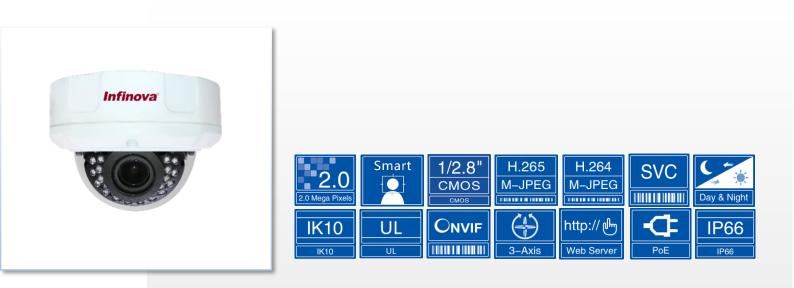
VH221-A20B-P022

HD 2MP INTELLIGENT STARLIGHT WDR IR IP MINIDOME CAMERA





FEATURES

- 1/2.8" CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- IR illumination distance up to 50m
- Applied with Smart-IR technology to adjust the light power according to ambient lighting conditions
- Support multi-frame integrated WDR, with a range up to 120dB
- Built-in motorized zoom lens for focus adjustment
- Support H.265/H.264/M-JPEG/SVC encoding
- High-resolution image signal output: 1920×1080P@25fps
- Smart H.265/Smart H.264 applied for a better utilization of broadband resources
- Support vivid smart analysis 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 IO input, smart analysis, SD card full with recording, SD card full with image storage, network disconnection and heartbeat loss etc.; support flexible alarm associated settings: like I/O output, email, uploading images via FPT, audio, SD card recording, SD card snapshot, and alarm information pushing

- Up to 8 ROI (Region of Interest) areas
- Up to 16 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
- Powered by PoE/12VDC/24VAC
- IK10 vandal-proof rating
- IP66 environmental rating for outdoor use
- UL UL

DESCRIPTION

Infinova VH221- A20B-P022 series HD 2MP Intelligent Star Light WDR IR IP Minidome Camera applies 1/2.8" CMOS sensor with built-in 2.7~13.5mm HD motorized vari-focal lens. The built-in IR lights cover an illumination distance up to 50m and 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 encoding, the camera outputs high-definition images with resolution up to 1080P@25fps, which can provide marvelous definition, color restoration and accurate details.

With self-developed deep learning algorithms, the camera is endowed with vivid smart functions such as video anomaly detection, face detection, face tracking and face capture, mask recognition, counting, crowd density detection, and behaviour analysis, catering for various high-end requests.

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

TECHNICAL SPECIFICATIONS

Lens (Visible)

	1/0.0
Image Sensor	1/2.8" progressive scan CMOS
Optical Zoom	-
Digital Zoom	-
Focal Length	f=2.7~13.5 mm
Iris	F1.6
Focus	Available with online assistant focus
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.265-25fps@1920x1080 Minor stream: H.264/H.265-15fps@1920x1080 Third stream: M-JPEG -25fps@1920×1080
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 256Kbps~10240Kbps Minor stream: 256Kbps~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-U/G.711-A), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)
Audio Interface	1 input, Linear level; 1 output, Linear level
Two-way Audio	Supported
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Mic & Speaker			
Mic & Speaker	-		
Image Shutter	$A_{\rm H}$ to $(M_{\rm OD})$ (1/10, 1/22,000c)		
WDR	Auto/Manual (1/1s~1/32,000s)		
_	Up to 120dB		
Exposure	Auto/Manual/Shutter Color mode: 0.001lux@ F1.4 (AGC ON);		
Sensitivity	B/W mode: 0.0001lux@ F1.4 (AGC ON); 0 lux (IR ON)		
White Balance	Auto/Manual/Outdoor		
Video Adjustment	Brightness, Contrast, Saturation, Hue, Sharpness adjustable		
Noise Reduction	3D		
S/N Ratio	≥55dB		
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	Available		
Wave Length	850nm		
Night Vision Distance	50m		
Temperature Measur	ement		
Screening	-		
Function	-		
Measurement	-		

TECHNICAL SPECIFICATIONS

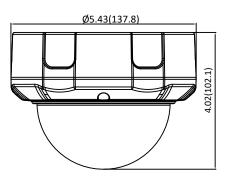
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Measurement	-	IP Address Filtering	Available
Distance		Network Delay	≤200ms
Measurement Range	-	Environmental	
Accuracy	-	Anti-Static	Air discharge: 8KV; contact discharge: 6KV
Smart Analytics		Surge Protection	Difference mode ±1KV, common mode ±2KV
	Video Anomaly Detection-Camera tampering, camera shifting, defocus detection, high	Operating Temperature	-40°F~140°F (-40°C~+60°C)
	brightness detection, low brightness	Storage	
	detection, video loss detection, color cast detection, and motion detection	Temperature	-4°F~158°F (-20°C~+70°C)
	Behaviour Analysis Detection - Wire crossing	Operating Humidity Environmental	≤ 95% RH
	detection, intrusion detection, object	Rating	IP66
	abandoned detection, object lost detection, loitering detection, crowd detection, fast	Impact Resistance	IK10
	moving detection,	Mechanical	
	target stop detection, and fall over detection	Manual Speed	-
	Sound Detection - Abnormal sound detection	Preset Speed	-
	and fight detection	Rotation Angle	-
Video Analytics		Preset Accuracy	-
	Statistics Detection - Counting, density	Electric Motor	-
	detection, queue length detection and	Electrical	
	dwelling detection	Power Supply	PoE (IEEE 802.3af Class 2) / 12VDC/ 24VAC
	Intelligent Grouping Detection- Behaviour	Power Consumption	<12W
	analysis grouping, face capture grouping.		<1274
	Face capture - Supports face detection,	Physical	
	tracking and capturing. Optimum Selection- Supports optimum	Product Dimension (L×W×H) or (H x D)	4.02"×5.43" (102.1mmר137.8mm)
	selection and duplicate removal for captured	Package Dimension	8.03"×6.34"×8.11" (204mm×161mm×206mm)
	target to deliver the best-quality images.	(L x W x H)	· · · · · · · · · · · · · · · · · · ·
	Face Exposure - Available	Unit Weight	2.07lbs. (0.94Kg)
	Face attributes - gender, glasses, eyes open,	Shipping Weight	2.54lbs. (1.15Kg)
	mask, mouth open	Certifications	
Storage		Product	CE, FCC, IK10, IP66, RoHS, UL
Storage Slots	Supports single card	Certifications	6E, 1 66, 1(16, 11 66, 11618, 6E
Built-in Storage	Up to 512GB		
NAS Storage	-		
Local PC Recording	Available		
Alarm			
Alarm Ports	2 alarm inputs, 1 on-off output		
	I/O input, smart events, SD card full of videos,		
Alarm Input	SD card full of images, network disconnection, heartbeat loss		
Alarm Association	I/O output, email, image upload via FTP, image upload via HTTP, SD card recording,		
Quatan Frantis	SD card snapshot, alarm info push		
System Functions	Win 7 and higher versions		
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		
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		
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ORDERING INFORMATION

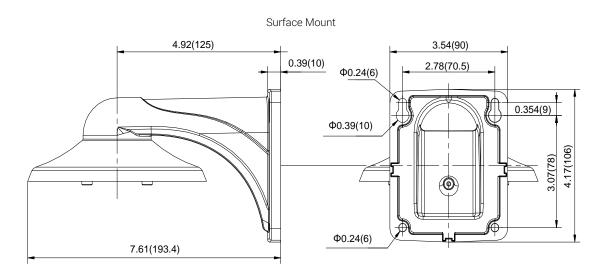
VH221-A20B-P022	HD IR IP Minidome Camera, 2MP, 1/2.8" CMOS, Day/night, WDR, Starlight, Intelligent, Face capture, Face mask recognition, H.265/H.264/M-JPEG/SVC, 2.7~13.5 mm motorized lens, IR illumination distance up to 50m, With audio alarm, Outdoor, Surface mount, PoE/12VDC/24VAC
Accessories	
Mount	
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



MOUNTING



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