

VS220-A20B-A0 Series

HD 2.0MP Starlight WDR Intelligent IP Minidome Camera

Infinova
The Integrator's Manufacturer



- 1/1.9" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Starlight-level ultra-low illumination: 0.0001lux
- High-resolution image signal output: 1920×1080@60fps
- Supports multi-frame integration WDR, with dynamic range up to 120dB
- Built-in motorized vari-focus lens, supporting assistant focusing
- Quad Simultaneous Video Streams: H.265/H.264/M-JPEG video encoding formats.
- Supports vivid intelligent detection functions:
 - 7 types of abnormal video detection: camera tampering, scene change, defocus, low brightness, high brightness, video loss, and color cast
 - 10 types of behavior-analysis detection: motion detection, wire crossing detection, intrusion detection, loitering detection, object abandoned detection, object lost detection, abnormal sound detection, crowd detection, fast moving detection, and fighting detection
 - 4 types of statistics detection: people counting, density detection, queue length detection, and dwelling detection
 - 3 types of feature detection: face detection, vehicle detection, and people detection
- Based on deep learning, supports face detection, face tracking and snapshot.
- Supports snapshots priority selection and duplicate deletion, which means the captured face images can have a prioritized selection according to the face angle and the image definition so as to ensure that the captured one can be recognized and the invalid images will not be uploaded to the server to waste its capacity.
- Supports image matting, and face images or scene images can be uploaded to the platform for secondary research and analysis.
- Able to detect faces within depression angle $\pm 20^\circ$, right and left deflection $\pm 40^\circ$, and right and left tilt $\pm 30^\circ$.
- Able to detect faces that the pupil distance is as much as 20 pixels.
- Able to detect 32 faces simultaneously in a scene.
- With a width of 8m in the center area of face detection, it can effectively cover every major entrance/exit and reduce the schedule cost.
- Supports intelligent exposure on faces.
- Supports SD card storage/NAS.
- Bi-directional audio, G.711-A/G.711-U/AAC.

- 2 alarm inputs, 1 on-off output.
- Supports multiple ways to trigger alarms, such as IO input, intelligent detection, SD card removal, net linkage lost, heartbeat loss, etc.; supports flexible alarm association settings, such as I/O output, email, FTP image upload, audio, SD card recording; Supports arming schedules.
- Up to eight ROI (Region of Interest) areas.
- Support simultaneous access and parameter setting via Web Server from multiple clients.
- Standard SDK is provided for easy integration with other video surveillance software.
- ONVIF Profile S/ONVIF Profile G compliant
- 12VDC/24VAC/PoE power supply
- IP67 environmental rating for outdoor models.
- 3-axis adjustment
- With analog video output

Infinova VS220-A2-A0 Series HD 2MP Starlight WDR Intelligent IP Mini-dome Camera, based on the algorithm of deep learning, allows output quad streams with image resolution up to 1080@60fps. With progressive scan CMOS sensor, and H.265 / H.264 / M-JPEG video compression formats, the camera provides excellent resolution and color reproduction, acquires richer and more accurate details and guarantees intelligent analysis accuracy in a more effective way, which caters for different application needs.

VS220-A2-A0 Series boasts of specific intelligent functions as well as face detection and snapshots. Functions of people detection and face detection could be set as alarm events and would trigger image capture and upload the images to our V2233 Intelligent Platform for secondary detection and analysis. The camera applies to the "spot detection" in the video surveillance of Safe City.

VS220-A2-A0 Series camera is widely used in city public security, highway, metro, station, exhibition hall, etc

Technical specifications

Image Sensor	1/1.9 " progressive scan CMOS	
Lens Configuration	Motorized vari-focus lens, F1.5, f=2.8-12mm	
Lens Mount	Ø14	
FOV	H	53°-109°
	V	29°-66°
	D	59°-121°
Day/Night Switching	ICR	
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): 0°~75°; Z (Rotating): 0°~360°	
Sensitivity	Color mode:0.001@F1.5, AGC ON B/W mode:0.0001@F1.5, AGC ON	
Exposure	Scene, Manual, Shutter	
Shutter	Auto/Manual (adjustment range 1/1s~1/32000s)	
AGC	Auto/Manual adjustable, max. 64X	
White Balance	Auto/Manual/Outdoor	
WDR	Supports multi-frame integration mode wide dynamic range up to 120dB	
Video Adjustment	Brightness, contrast, saturation, chroma, sharpness	
Noise Reduction	3D	
Defog	Available	
EIS	Available	
Corridor Mode	Available	
Image Mirror	Horizontal/Vertical mirror	
Video Compression	H.265/H.264 switchable M-JPEG independent	
Max. Encoding Capacity	H.264/H.265~60fps@1920×1080	
Output Code Rate	Variable; Constant: major stream: 256Kbps~10000Kbps; minor stream: 256Kbps~2000Kbps	
Audio	Compression: G.711a, G.711u, AAC Sampling rate: 8KHz (for G.711a, G.711u), 16KHz 32 KHz, 44 KHz, 48 KHz optional (for ACC) Port: 1 linear input, 1 linear output; build-in Mic	
Smart Video Analysis	Abnormal video detections: camera tampering, scene change, defocus, low brightness, high brightness, video loss, and color cast	
	Behavior-analysis detections: motion detection, wire crossing detection, intrusion detection, loitering detection, object abandoned detection, object lost detection, abnormal sound detection, crowd detection, fast moving detection, and fighting detection	
	Statistics detections: people counting, density detection, queue length detection, and dwelling detection	
	Feature detections: face detection, vehicle detection, and people detection	
	Supports face detection, face tracking and snapshot based on deep learning; Supports snapshots priority selection and duplicate deletion	
	Supports photo-shop, and face images or scene images can be uploaded to the platform for secondary research and analysis	
Alarm	Supports intelligent exposure on faces	
Input	2 alarm inputs, 1 on-off output	
	I/O input, network disconnection, motion detection, smart analysis, storage card removal, heartbeat loss	
Alarm Association	I/O output, email, FTP picture uploading, audio, SD card recording, SD card screenshots	
Motion Detection	Supports up to 4 motion detecting areas	
Privacy Mask	Up to 4 masks	
ROI	Up to 8 regions	
Internal Storage	Supports a Micro SD/SDHC/SDXC card (128G)	
Local PC Recording	Available	
Smart Functions	Video anomaly detection, wire cross detection, and intrusion detection	
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 Filter	Available	
Operating System	Supports Windows XP, Win7, Win8, Win10 operating system	
Browser	IE7, IE8, IE9, IE10, IE11	
Access Protocol	ONVIF Profile S& Profile G, CGI2.7	
Remote Network Upgrade	Available	
Password Protection	Available	
Network Port	One RJ45 10/100M self-adaptive Ethernet port	
Analog Video Output	Available, BNC connector	
Power Supply	PoE (IEEE 802.3af)/12VDC(±20%)/24VAC(±25%)	
Power	<6W	
Protection Design	Lighting protection (network port and power supply connector): protection differential mode 2KV, common mode 2KV surge; Anti-static (all ports): contact protection 6KV static, 8KV air discharge	
Operating Temperature	-40°F ~ 140°F (-40°C ~ 60°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	
Operating Humidity	0%~95% RH (non-condensing)	
Unit Dimensions (H×Ø)	4.76"×5.91" (121mm×150mm)	
Unit Weight	Surface mount: 2.43lbs (1.10kg) Ceiling mount: 2.43lbs (1.10kg) Bracket mount: 4.23 lbs (1.95kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ ; FCC: Part 15 Subpart B Class A ² ; ISO 9001:2008; UL ³	

Certificate No.: ¹CTL1703238085-EC; ²CTL1703238085-FC; ³E232008

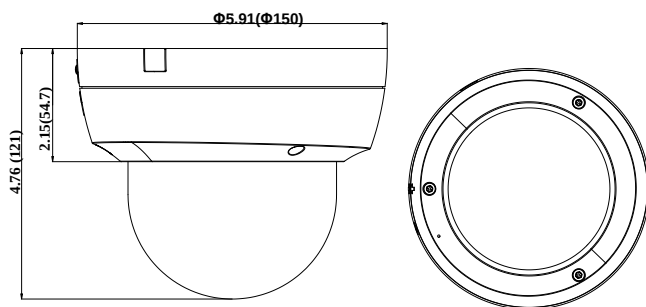
Ordering information

VS220-A20B-A012	HD Megapixel IP mini-dome camera, Day/night, 1/1.9 inch CMOS sensor, H.265/ H.264 /M-JPEG, 2.0Mpx, PoE/12VDC/24VAC, Outdoor, Surface mount, Clear Bubble, 2.8~12mm motorized Vari-focus lens
VS220-A20B-A022	HD Megapixel IP mini-dome camera, Day/night, 1/1.9 inch CMOS sensor, H.265/ H.264 /M-JPEG, 2.0Mpx, PoE/12VDC/24VAC, Outdoor, Surface mount, Clear Bubble, 2.8~12mm motorized Vari-focus lens
VS220-A20B-A032	HD Megapixel IP mini-dome camera, Day/night, 1/1.9 inch CMOS sensor, H.265/ H.264 /M-JPEG, 2.0Mpx, PoE/12VDC/24VAC, Indoor, Ceiling mount, Clear Bubble, 2.8~12mm motorized Vari-focus lens
VS220-A20B-A062	HD Megapixel IP mini-dome camera, Day/night, 1/1.9 inch CMOS sensor, H.265/ H.264 /M-JPEG, 2.0Mpx, PoE/12VDC/24VAC, Outdoor, Bracket mount, Clear Bubble, 2.8~12mm motorized Vari-focus lens

Accessories

V1761MT-W1	Wall Mount, 6 inches, glossy white
V1762MT-W1	Corner Mount, 6 inches, glossy white
V1763MT-W1	Pole Mount, 6 inches, glossy white

Dimension



(Unit: inch, in the parentheses is mm)