

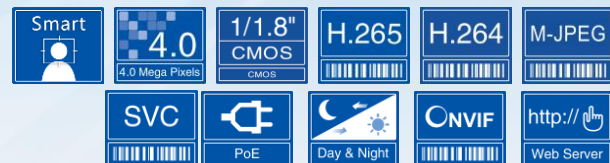
VS210-B4-YO Series

HD 4MP Intelligent Starlight WDR IP Camera

Infinova[®]



(Lens not included)



- With embedded design and integrated NPU module, support face detection, tracking and capturing based on deep learning algorithm
- High-resolution image signal output: 2560×1440@30fps
- 1/1.8" progressive scan CMOS
- Sensitivity: 0.0001 lux
- Support multi-frame integrated WDR, with a range up to 120dB
- Support ABF (Auto Back Focus)
- IR-Cut Removable (ICR) Filter for true Day/Night
- H.265/H.264/M-JPEG/SVC encoding formats, available with four video streams
- Support vivid smart functions:
 - 8 types of video anomaly detection: camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection and motion detection
 - 9 types of behavior-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 detection
 - 2 types of sound detection: abnormal sound detection and fight detection
 - 4 types of statistics detection: counting, density detection, queue length detection, and dwelling detection
 - 2 types of intelligent grouping detection: face detection grouping and behavior analysis grouping
- Able to detect human face when tilting up or down ±45°, turning right or left ±45°, or leaning right or left 45°
- Able to detect face images with a minimum of 30*30 pixels at 1080P
- The face capture rate is ≥99%
- Able to detect 32 face images simultaneously in a single scene
- Support intelligent face exposure, automatic face position detection and dynamic area adjustment for face exposure to obtain clearer face images
- Onvif Profile S/G/Q and RTSP compliant
- Support multiple ways to trigger alarms, such as I/O input, smart detection, 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 and SD card snapshot; support arming by time
- Support rich network protocols, including IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3, DHCP, SNMP (V1, V2, V3), FTP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x, QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter, TLS, Multicast and SIP
- Standard http protocol or SDK are provided to seamlessly connect to our

- intelligent platform or the third-party platform, so as to meet the higher requirements of intelligent application
- Support corridor mode
- Support simultaneous access and parameter settings via Web Server from multiple clients
- Bi-directional audio, G.711-A/G.711-U/G.726/AAC
- 2 alarm inputs, 1 on-off output
- Micro SD card/NAS storage
- Powered by PoE/12VDC/24VAC

Infinova VS210-A4 Series HD 4MP Intelligent Starlight WDR IP Camera applies 1/1.8-inch CMOS sensor and supports ABF (Auto Back Focus). With H.265/H.264/M-JPEG video compression formats, the camera can output high-quality images with resolution up to 2560×1440@30fps, which can not only provide marvelous definition, color restoration and accurate details, but also effectively ensure the intelligent analysis accuracy.

The camera is endowed with vivid smart functions and can output high-quality images to the backend platform for big data analysis. It can effectively reduce the loads and costs of data analysis and processing that the backend platform bears. The camera can be seamlessly connected to Infinova's smart structured big-data platform or the third-party platform via standard http protocol and SDK.

The camera can be widely used in city public security, road security, subway entrance, shopping mall/supermarket/large-scale exhibition hall entrance, station/airport and other high-end applications.

Technical specifications

Lens	
Iris/Focal Length	1. DC drive, manual-focus lens optional, 3.6~17mm/11~40mm/5~50mm 2. P Iris drive, manual-focus lens optional-5-50mm
Image Sensor	1/1.8" progressive scan CMOS
Lens Mount	C/CS
FOV	106° (WIDE)~41° (TELE)/38° (WIDE)~12° (TELE)
D/N Switch	ICR
Video	
Video Compression	H.265/H.264/M-JPEG/SVC independent coding
Max. Coding Capacity	Major stream: H.264/H.265 –30fps@2560×1440 Minor stream: H.264/H.265 –30fps@1920×1080 Third stream: H.264/H.265 –30fps@384×256 Fourth stream: H.264/H.265 –30fps@384×256
	Major stream: H.264/H.265 –30fps@2560×1920 Minor stream: H.264/H.265 –30fps@1920×1080 Third stream: MJPEG –15fps@1920×1080 Fourth stream: H.264/H.265 –30fps@384×256
	Major stream: H.264/H.265 –50fps@1920×1080 Minor stream: H.264/H.265 –50fps@1920×1080 Third stream: H.264/H.265 –50fps@1920×1080
	Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps
Data Rate	Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps
Multi-Streams	Four-stream independent outputting
Video Rotation	Video can be rotated by 0°, 90°, 180° or 270°
ROI	Up to 8 definable ROI areas
Network Delay	<220ms
Multiple Access	Up to 20-ch simultaneous access
I-Frame Anti-tampering	Available
Privacy Mask	Up to 4 definable areas
OSD	Available
Audio	
Audio Compression	G.711-A, G.711-U, G.726, AAC
Sample Rate	8KHz (for G.711-A/G.711-U/G.726), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)
Audio Interface	1 input, Linear level; 1 output, Linear level
Two-way Audio	Available
Image	
Shutter	Auto/Manual (1/1s~1/32,000s)
WDR	Support multi-frame integrated wide dynamic with a range up to 120dB
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.001lux; B/W mode: 0.0001lux
White Balance	Auto/Manual/Outdoor
Video Effect	Brightness, contrast, saturation, hue, sharpness
Noise Reduction	3D
S/N Ratio	≥65dB
Horizontal Center Resolution	≥1600TVL
Defog	Available
EIS	Available
Mirror	Horizontal/Vertical
Corridor Mode	Available
AGC	Auto/Manual, up to 64X
BLC	Available
Day/Night	Available
HLC	Available
Smart Analytics	
Video Anomaly Detection	Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, motion detection

Behavior Analysis Detection	Wire crossing detection, intrusion detection, object abandoned detection, object lost detection, loitering detection, crowd detection, fast moving detection, target stop detection, fall detection
Sound Detection	Abnormal sound detection and fight detection
Statistics Detection	Counting, density detection, queue length detection and dwelling detection
Intelligent Grouping Detection	Structured face detection grouping and behavior analysis grouping
Target Detection	Support face detection
Capture	Support target detail capture
Optimum Selection	Support optimum selection and duplicate removal for captured face images to deliver the best-quality images
Detection Angle	Tilt up or down ±45°, turn right or left ±45°, or lean right or left 45°
Accuracy	Capture rate ≥99%
Minimum Face Size	Able to detect face images with a minimum of 30*30 pixels at 1080P
Detection Capability	Able to detect 32 face images simultaneously in a single scene
Face Exposure	Available
Alarm	
Alarm (optional)	2 alarm inputs, 1 on-off output
Alarm Input	I/O input, smart events, SD card removal, SD card full of videos, SD card full of images, network disconnection, heartbeat loss
Alarm Association	I/O output, email, image upload via FTP, audio, alarm info push, SD card snapshot, SD card recording
Storage	
Built-in Storage	Support single card, compatible with Micro SD/SDHC/SDXC card (up to 256G) for video and image storage
NAS Storage	Available
Local PC Recording	Available
System Functions	
Operation System	Windows XP, Win 7, Win 8, Win 10
Browser	IE7 or above
Access Protocol	ONVIF Profile S/G/Q, CGI 2.7
Web Server	Available
Remote Update	Available
Password Protection	Available
Maximum Number of Users	64, with 3 types of users available: administrator, normal user, and operator
IP	
Network Interface	1 RJ45 interface, 10M/100M self-adaptive Ethernet port
Network Protocols	IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3, DHCP, SNMP (V1, V2, V3), FTP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x, QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter, TLS, Multicast, SIP
IP Address Filter	Support blacklist and whitelist filtering for up to 1024 IP segments
Electrical	
Power Supply	PoE (IEEE 802.3af)/12VDC (±20%)/24VAC (±25%)
Power Consumption	<6W
Environmental	
Anti-Static	Air discharge: 8KV, contact protection: 6KV (for all ports)
Surge Protection	Difference mode: ±2KV, common mode: ±4KV (for network port and power port)
Working Temperature	-40°F~140°F (-40°C~+60°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
Humidity	0%-95% RH (non-condensing)
Environmental Rating	Subject to camera housing

Technical specifications

Physical

Unit Dimensions (LxWxH)	5.88"×2.97×2.84" (149.3mm×75.5mm×72mm) (including BNC)
Box Dimensions (LxWxH)	8.07"×4.92×3.94" (205mm×125mm×100mm)

Unit Weight	1.21lbs. (0.55Kg)
Shipping Weight	1.54lbs. (0.70Kg)
Mounting	Subject to camera housing

Ordering information

VS210-B4-Y0 HD 4MP Intelligent Starlight WDR IP Camera, Smart Face Capture, ABF, 1/1.8" CMOS, Day/Night, H.265/H.264/M-JPEG/SVC, PoE/12VDC/24VAC

Accessories

Lens

V1182-1140-C8R	1/1.8 inch, 11-40mm, F1.4, DC auto-iris, CS mount, 8MP, IR
V1182-3617-C8R	1/1.8 inch, 3.6-17mm, F1.5, DC auto-iris, CS mount, 8MP, IR
V1182-3617-C6R	1/1.8 inch, 3.6-17mm, F1.5, DC auto-iris, CS mount, 6.0MP, IR
V1182-0550-C8RC	1/1.8 inch, 5-50mm, F1.5, DC auto-iris, CS mount, 8.0MP, IR
V1182-0550-C8RC-P	1/1.8 inch, 5-50mm, F1.5, P-iris, CS mount, 8.0MP, IR

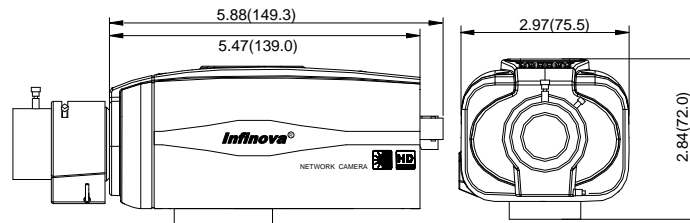
Housing

V1405-10	Camera housing, indoor/outdoor, 10 inch internal
V1405-10S	Camera housing, indoor/outdoor, 10 inch internal, w/ sun shield
V1405-10SH	10" indoor/output small housing, total length of 400mm, with sunshield and 24VAC/220VAC heater
V1405-10SHB	Camera housing, indoor/outdoor, 10 inch internal, w/ sun shield, heater & blower, 24VAC
V1405-11SHB	Camera housing, indoor/outdoor, 11 inch internal, w/ sun shield, heater & blower, 24VAC
V1406-11SHB	Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 24VAC
V1406-11SHB + V1406W	Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 24VAC + Wiper for V1406 camera housing, 24VAC
V1405-11SHB-IR-1	IR Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 15°, 120m, 24VAC
V1405-11SHB-IR-2	IR Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 30°, 100m, 24VAC
V1405-11SHB-IR-3	IR Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 45°, 70m, 24VAC
V1405-11SHB-IR-4	IR Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 60°, 50m, 24VAC

Camera Brackets

V1551-7	7" camera bracket
V1551-10	10" camera bracket
V1571-W	Wall Mount, H/V adjustable for housing (V1405), 33.07 lbs (15 kg) load
V1573	Mount Adapter, Adds H/V adjustability to V1571-W Wall Mount for housing (V1405, V1406, V1407), 44.09 lbs (20 kg) load
V1573-2	Mount Adapter, Adds H/V adjustability to V1571-W Wall Mount for housing (V1405, V1406, V1407), 44.09 lbs (20 kg) load
V1573-A	Wall Mount for V1405-11SHB-IR Housing, H/V adjustable for housing, 88.19 lbs. (40 kg) load, Cable Management

Dimensions



(Unit: inch, in the parentheses is mm)