VS210-P2 Series
H265 HD 2MP Starlight WDR Face Capture IP Box Camera

Infinova®
The Integrator's Manufacturer

2.0 Mega Pixels | 1/1.9" CMOS | 1/2" CMOS | Smart | H.265 | H.264
M-JPEG | Four Video Streams | Day & Night | PoE | Web Server
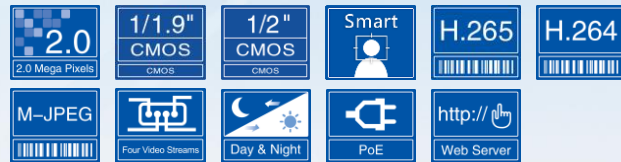
- Progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Sensitivity: 0.0001 lux
- Supports frame integration WDR, with dynamic range up to 132dB
- High-resolution image signal output: 1920×1080@60fps
- Auto Back Focus (ABF)
- Quad Simultaneous Video Streams: H.265/H.264/M-JPEG video encoding formats.
- Supports vivid intelligent detection functions:
  - 7 types of anomaly 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 un-attended 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 humanoid detection
- Supports face detection, face tracking and face capture on the basis of deep learning
- Able to select an optimized capture face and delete the duplicate, which means that the face image can have a better selection by the capture angle and image definition and the invalid will not be uploaded to the platform. The image of the scene and faces can be uploaded to the platform for secondary analysis and retrieval.
- Camera is installed right ahead the passage to capture faces within up and down deflection±20°, right and left deflection±40°; Right and left rotation ±30°
- Able to detect faces that the Pupil Distance is 20 pixels at least.
- Able to detect 32 faces in a scene.
- The width of detection area is up to 8m, which is sufficient to cover every major entrance/exit and make cost down.
- Supports image intelligent exposure.
- 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 and arming schedules.
- Up to eight ROI (Region of Interest) areas.
- Users can have real-time visit and configure the parameters by Web Server.
- Standard SDK is provided to integrate with other video surveillance software.
- ONVIF Profile S/ G/ Q/ T compatible
- Standard SDK is provided for easy integration with other video surveillance software
- Wide voltage design

Infinova VS210-P2 series H265 HD 2MP Starlight WDR Face Capture IP Box Camera is based on the algorithm of deep learning. Boasts of rich intelligent functions, it supports facial detection and face snapshot. The facial 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.

VS210-P2 series allows image output resolution up to 1920×1080@60fps. With H.265/H.264/M-JPEG encoding, the camera outputs quad video streams, 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.

VS210-P2 series camera is widely used in city public security, highway, metro, station, exhibition hall, etc

Technical specifications

Image Sensor	For VS210-P2-A0: 1/1.9" Sony progressive scan CMOS For VS210-P2-C0: 1/2" Sony progressive scan CMOS			
Auto Iris	DC Drive			
Focal Length	Zoom Lens, 3.6~17mm			
		H	V	D
FOV	F1.4, 11-40mm	16°-34°	9°-19°	19°-37°
	F1.5 3.6-17mm	28°-98°	16°-54°	30°-114°
Day/Night Functionality	ICR			
Lens Mount	C/CS			
Video Compression	H.265, H.264, M-JPEG independent			
Max Coding Capacity	H.264/H.265−60fps@1920×1080 + H.264/H.265−30fps@1920×1080 + MJPEG−30fps@1920×1080 + H264/H265−30fps@720x480			
Data Rate	Variable bit rate: Constant bit rate: 256Kbps~10000Kbps			
Multi-stream	Quad-stream independent			
Video Rotation	90°, 180° and 270° video rotation			
ROI	Up to 8 areas			
Network Delay	<140ms			
Audio Compression	G.711-A/G.711-U/G.726/AAC			
Audio Code Rate	8KHz (for G.711-A/G.711-U/G.726) 16KHz, 32KHz, 44KHz, 48KHz (or AAC)			
Audio Port	1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)			
Focus	Manual, ABF assistance			
SNR	>62dB			
Shutter	Auto/Manual (1/1s~1/32000s)			
Exposure	Scene/Manual/Shutter			
Sensitivity	For VS210-P2-A0 Color mode: 0.001Lux@F1.2; B/W mode: 0.0001Lux@F1.2 For VS210-P2-C0 Color mode: 0.0003Lux@F1.2; B/W mode: 0.0001Lux@F1.2			
White Balance	Auto/Manual/Outdoor			
WDR	Support frame integration WDR ,up to 120dB (for VS210-P2-A0); Support frame integration WDR ,up to 132dB (for VS210-P2-C0);			
Video Adjustment	Brightness, contrast, saturation, hue and sharpness adjustable			
Noise Reduction	3D			
Anti-fog	Available			
EIS	Available			
Image Mirror	Horizontal/Vertical mirror			
Corridor Mode	Available			
AGC	Auto/Manual, up to 64X			
BLC	Available			
HLC	Available			
Privacy Mask	Up to 4 areas			

Smart Video Analysis	**Anomaly detections**: camera tampering, scene change, defocus, low brightness, high brightness, video loss, and color cast
Smart Video Analysis	**Behavior-analysis detections:** motion detection, wire crossing detection, intrusion detection, loitering detection, object unattended 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 customer interest detection **Feature detections:** face detection, vehicle detection, and humanoid detection; Supports face detection, face tracking and face capture; Able to select an optimized capture face and delete the duplicate. The image of the scene and faces can be uploaded to the platform for secondary analysis and retrieval. Supports face image exposure
Storage	Micro SD/SDHC/SDXC card (256G)
Local PC Recording	Available
Alarm	2 alarm inputs, 1 on-off output
Alarm Input	I/O input, smart analysis, SD card removal, network disconnection, heartbeat loss
Alarm Association	I/O output, mail, snapshot, FTP upload, audio, TF card recording, sending alarm
Operating System	Windows XP, Win7, Win8, Win10
Browser	IE8, IE9, IE10, IE11
Access Protocols	ONVIF Profile S/ G/ Q/ T, Infinova CGI
Web Server	Available
Upgrade Online	Available
Password Protection	Available
RS485 Port	1-ch RS485 port
Analog Video Output	1-ch BNC connector
Network Port	One RJ45 10/100M self-adaptive Ethernet port
IP Address Filter	Available
Available Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Power Supply	12VDC(±20%)/24VAC (±30%)/PoE(802.3AF)
Power	≤6.5W
Protective design	Static electricity: 6KV, air discharge: 8KV
Surging Protection	2KV
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	0~95% RH (non-condensing)
Unit Dimensions (L×W×H)	5.88"×2.97×2.84" (149.3mm×75.5mm×72mm) (including BNC)
Box Dimensions (L×W×H)	8.07"×4.92×3.94" (205mm×125mm×100mm)
Unit Weight	1.21lbs. (0.55Kg)
Shipping Weight	1.54lbs. (0.70Kg)
Certifications	CE, FCC, RoHS, UL

Ordering information

| VS210-P2-A0 | H265 HD IP Box Camera, Smart Face Capture, Starlight, WDR, ABF, 2.0MP, 1/1.9 inch CMOS sensor, Day/night, H.265/H.264/MJPEG, PoE/12VDC/24VAC |
| VS210-P2-C0 | H265 HD IP Box Camera, Smart Face Capture, Starlight, WDR, ABF, 2.0MP, 1/2 inch CMOS sensor, Day/night, H.265/H.264/MJPEG, PoE/12VDC/24VAC |

Optional Lenses:

| V1182-3617-C6R | 1/1.8 inch, 3.6-17mm, F1.5, DC Auto Iris, CS mount, 6MP, IR |
| V1182-1140-C8R | 1/1.8 inch, 11-40mm, F1.4, DC Auto Iris, CS mount, 8MP, IR |

Housings:

V1405-10S-3	10 inch indoor/outdoor housing, with sunshield
V1405-10SHB-3	10inch indoor/outdoor housing, with sunshield, blower & heater, 24VAC
V1405-10SHB-3	10 inch indoor/outdoor housing, 400mm in length, with sunshield & heater, 24VAC/220VAC

Accessories

| V1571-W | Wall-mounted bracket, undertaking 15kg at most |
| V1573 | Indoor/outdoor bracket, undertaking 20kg at most |

Dimensions

5.88(149.3)
5.47(139.0)
2.97(75.5)
2.84(72.0)
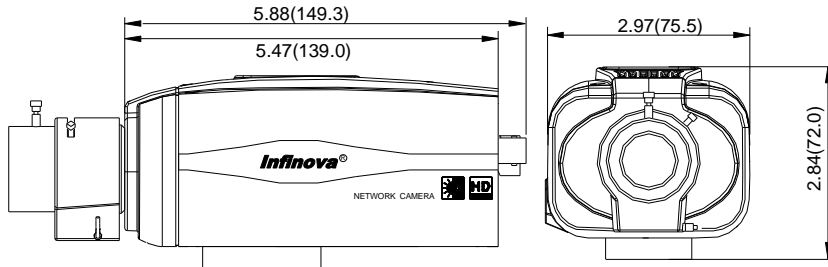
(Unit: inch, in the parentheses is mm)