

VS210-A4-IO SERIES

HD 4MP INTELLIGENT STARLIGHT WDR IP CAMERA

Infinova[®]



FEATURES

- 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
- 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
- Support vivid smart functions such as video anomaly detection, behaviour-analysis detection, sound detection, statistics detection, intelligent grouping detection
- Able to detect human face when tilting up or down $\pm 45^\circ$, turning right or left $\pm 45^\circ$, 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 $\geq 99\%$
- 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 & T and RTSP compliant
- Support corridor mode
- Bi-directional audio, G.711-A/G.711-U/G.726/AAC
- Support simultaneous access and parameter settings via Web Server from multiple clients
- 2 alarm inputs, 1 on-off output
- Micro SD card
- Powered by PoE/12VDC/24VAC

DESCRIPTION

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 (Visible)	
Image Sensor	1/1.8" progressive scan CMOS
Optical Zoom	-
Digital Zoom	-
Focal Length	-
Iris	P-iris, F1.4, F1.5~2.8
Focus	ABF
FOV(H/V/D)	H:106°(W)~41°(T); V:38°(W)~12°(T)
Lens Mount	C/CS
Lens (Thermal)	
Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-
FOV	-
Video	
Camera Resolution (Visible Lens)	4MP
Camera Resolution (Thermal Lens)	-
Max. Coding Capacity (Visible Lens)	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@2560×1440 Minor stream: H.264/H.265 -30fps@1920×1080 Third stream: MJPEG -15fps@1920×1080 Fourth stream: H.264/H.265 -30fps@384×256
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 128kbps~1024kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps
Video Compression	H.265/H.264/M-JPEG/SVC independent coding
Multi-Streaming	Four - stream independent output
Video Rotation	Video can be rotated by 0°, 90°, 180° or 270°

Audio	
Audio Compression	G.711-/ 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
Mic & Speaker	-
Image	
Shutter	Auto/Manual (1/1s~1/32,000s)
WDR	Up to 120dB
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.001lux; B/W mode: 0.0001lux
White Balance	Auto/Manual/Outdoor
Video Adjustment	Brightness, contrast, saturation, hue, sharpness
Noise Reduction	3D
S/N Ratio	≥65dB
Defog	Available
EIS	Available
Mirror	Horizontal/Vertical
Corridor Mode	Available
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	-

TECHNICAL SPECIFICATIONS

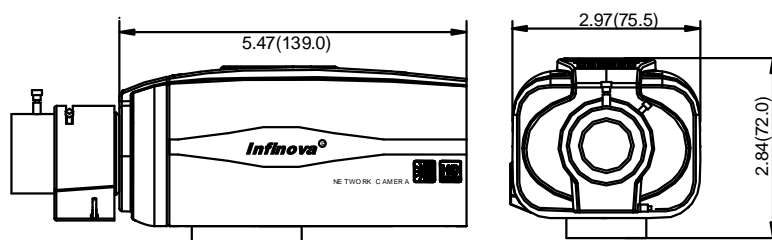
Temperature Measurement	
Screening Function	-
Measurement Distance	-
Measurement Range	-
Accuracy	-
Smart Analytics	
Video Analytics	Video Anomaly Detection-Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, 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 and facial expression (angry, disgusted, fearful, happy, sad, surprised or neutral)
Storage	
Storage Slots	Support single card
Built-in Storage	up to 512GB
NAS Storage	NA
Local PC Recording	Available
Alarm	
Alarm Ports	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
System Functions	
Operating System	Win 7 and higher versions
Browser	IE8 and higher versions
Access Protocol	ONVIF Profile S/G/T, CGI 2.7
Multiple Access	Up to 20-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	Available
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, 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 Filtering	Available
Network Delay	<220ms
Environmental	
Anti-Static	Air discharge: 8KV; contact discharge: 6KV
Surge Protection	Difference mode: ±2KV, common mode: ±4KV
Operating Temperature	-40°F~140°F (-40°C~+60°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
Operating Humidity	≤ 95% RH
Environmental Rating	-
Impact Resistance	-
Mechanical	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
Electrical	
Power Supply	PoE (IEEE 802.3af Class 2) /12VDC /24VAC
Power Consumption	<6W
Physical	
Product Dimension (L×W×H) or (H x D)	5.88"×2.97×2.84" (149.3mm×75.5mm×72mm) (Including BNC)
Package Dimension (L x W x H)	8.07"×4.92×3.94" (205mm×125mm×100mm)
Unit Weight	1.21lbs. (0.55Kg)
Shipping Weight	1.54lbs. (0.70Kg)
Certifications	
Product Certifications	CE, FCC, RoHS, UL

ORDERING INFORMATION

VS210-A4-I0	HD Megapixel Intelligent Starlight WDR IP Box Camera, 4MP, 1/1.8" CMOS, P-Iris, Day/night, H.265/H.264/M-JPEG/SVC, Smart Face Capture, ABF, PoE/12VDC/24VAC
Accessories	
Lens	
V1182-0550-C8RC-P	Lens, 8MP, 1/1.7", f=5-50mm, F/1.4, CS Mount, P Iris
V1182-3617-C8R-P	Lens, 8MP, 1/1.8", f=3.6-17mm, F1.5 ~ 2.8, CS Mount, P Iris
V1182-3617-C6R-P	Lens, 6MP, 1/1.8", f=3.6-17mm, F1.5 ~ 2.8, CS Mount, P Iris
V1182-1250-C6RF1-P	Lens, 6MP, 1/1.8", f=12-50mm, F/1.5, CS Mount, P Iris
V1182-1150-C8RF1-P	Lens, 8MP, 1/1.7", f=11-50mm, F/1.4, CS Mount, P Iris
Housing	
V1405-10	Camera housing, indoor/outdoor, 10 inch internal
V1405-10S	Camera housing, indoor/outdoor, 10 inch internal, w/ sun shield
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
Housing Bracket	
V1571-W	Wall Mount, H/V adjustable for housing (V1405), 33.07 lbs (15 kg) load
V1572-W	Wall Mount, Non - Adjustable for housing (V1405, V1406, V1407), 121.25 lbs. (55 kg) load
V1573	Wall Mount, H/V adjustability for housing (V1405, V1406, V1407), 44.09 lbs (20 kg) load
V1573-2	Wall Mount, H/V adjustability for housing (V1405, V1406, V1407), 44.09 lbs (20 kg) load
V1573-A	Wall Mount, H/V adjustability for housing (V1405-11SHB-IR), 88.19 lbs. (40 kg) load, Cable Management
Power Supply	
N3921-12D-1	AC to DC Power Supply, Plug-In, 230VAC, Output 12VDC, 1.5A
N3921-24A-2	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 1A
N3922-30P-2	Smart POE Injector, 100VAC-240VAC input, 30W output

DIMENSIONS



(Unit: inch, in the parentheses is mm)