

VH211-A5 Series

HD 5MP Intelligent Starlight WDR IR IP Camera

Infinova[®]



- With embedded design and integrated NPU module, support face detection, tracking and capturing based on deep learning algorithm
- High-resolution image signal output: 2560×1920@30fps
- 1/2.8" HD progressive scan CMOS
- Sensitivity: 0.0005 lux
- Support multi-frame integrated WDR, with a range up to 120dB
- IR-Cut Removable (ICR) Filter for Day/Night switching
- With Smart-IR technology, the power of the IR illuminator can be adjusted according to ambient lighting conditions
- IR illumination distance up to 70m
- Built-in motorized zoom lens, assistant to focus adjustment
- H.265/H.264/M-JPEG three encoding formats
- 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
 - 8 types of behavior-analysis detection: wire crossing detection, intrusion detection, object abandoned detection, object lost detection, loitering detection, crowd detection, fast moving detection and target stop detection
 - 2 types of sound detection: abnormal sound detection and fighting detection
 - 4 types of statistics detection: people counting, density detection, queue length detection, and dwelling detection
 - 2 types of intelligent grouping detection: face capture grouping and behavior analysis grouping
- Support optimum selection and duplicate removal for the captured face images by checking the face angle and image resolution, so as to reduce useless images to be uploaded to the server; face images and scene images can be uploaded to the platform for a secondary analysis and retrieval
- 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
- IP67 environmental rating

Infinova VH211-A5 series HD 5MP Intelligent Starlight WDR IR IP camera applies 1/2.8-inch CMOS sensor and 2.8~12mm HD motorized zoom lens. The built-in IR lights can cover up to 70m and its power can be automatically adjusted according to ambient lighting conditions, greatly reducing power consumption and extending its service life. With H.265/H.264/M-JPEG video compression formats, the camera outputs high-quality images with resolution up to 2560×1920@30fps, which can provide marvelous definition, color restoration and accurate details.

The camera is endowed with vivid smart functions such as face capture and behavior analysis. Triggered by alarm events, the intelligent capture function enables face images and scene images to be captured and uploaded to Infinova intelligent platform for secondary identification and analysis.

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

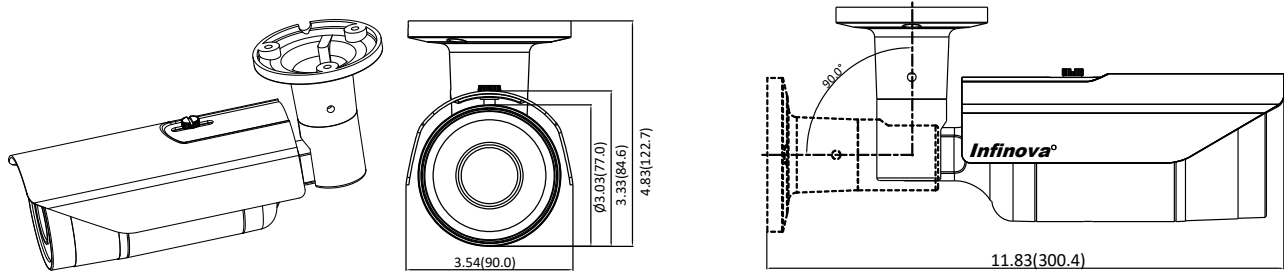
Lens		Intelligent Grouping Detection	Face detection grouping and behavior analysis grouping
Iris/Focal Length	Motorized zoom lens, F1.6, f=2.8~12mm	Target Detection	Support face detection
Image Sensor	1/2.8" progressive scan CMOS	Capture	Support target detail capture
Lens Mount	Φ14	Optimum Selection	Support optimum selection and duplicate removal for captured target images to deliver the best-quality images
D/N Switch	ICR	Detection Angle	Tilt up or down ±45°, turn right or left ±45°, or lean right or left 45°
IR LED		Accuracy	Capture rate ≥99%
Smart-IR	Available	Minimum Face Size	Able to detect face images with a minimum of 30*30 pixels at 1080P
IR Wavelength	850nm	Detection Capability	Able to detect 32 face images simultaneously in a single scene
Illumination Distance	70m	Face Exposure	Available
Video		Alarm	
Video Compression	H.265/H.264/M-JPEG independent coding	Alarm (optional)	2 alarm inputs, 1 on-off output
Max. Coding Capacity	Major stream: H.264/H.265-30fps@2560×1920	Alarm Input	I/O input, smart events, SD card removal, SD card full of videos, SD card full of images, network disconnection, heartbeat loss
	Minor stream: H.264/H.265-30fps@1280×720	Alarm Association	I/O output, email, image upload via FTP, audio, alarm info push, SD card recording, SD card snapshot
	Third stream: H.264/H.265-30fps@384×256		
Data Rate	Major stream: H.264/H.265-30fps@2560×1920	Storage	
	Minor stream: H.264/H.265-30fps@1280×720	Built-in Storage	Support single card, compatible with Micro SD/SDHC/SDXC card (up to 256G)
	Third stream: MJPEG-15fps@1920×1080	NAS Storage	Available
Multi-Streams	Three-stream independent outputting	Local PC Recording	Available
Video Rotation	Video can be rotated by 0°, 90°, 180° or 270°	System Functions	
ROI	Up to 8 definable ROI areas	Operation System	Windows XP, Win 7, Win 8, Win 10
Network Delay	<200ms	Browser	IE7 or above
Multiple Access	Up to 20-ch simultaneous access	Access Protocol	ONVIF Profile S/G/Q, CGI 2.7
I-Frame Anti-tampering	Available	Web Server	Available
Privacy Mask	Up to 4 definable areas	Remote Update	Available
OSD	Available	Password Protection	Available
Audio		Maximum Number of Users	64, with 3 types of users available: administrator, ordinary user, and operator
Audio Compression	G.711-A, G.711-U, G.726, AAC	IP	
Sample Rate	8KHz (for G.711-U/G.711-A/G.726), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)	Network Interface	1 RJ45 interface, 10M/100M self-adaptive Ethernet port
Audio Interface	1 input, Linear level; 1 output, Linear level	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
Two-way Audio	Available		
Image		IP Address Filter	Support blacklist and whitelist filtering for up to 1024 IP segments
Shutter	Auto/Manual (1/1s~1/32,000s)	Electrical	
WDR	Support multi-frame integrated wide dynamic with a range up to 120dB	Power Supply	PoE (IEEE 802.3af)/12VDC(±20%)/24VAC(±25%)
Exposure	Auto/Manual/Shutter	Power Consumption	<6W (IR off); <13W (IR on)
Sensitivity	Color mode: 0.005lux (IR OFF); B/W mode: 0.0005lux (IR OFF); 0 lux (IR ON)	Environmental	
White Balance	Auto/Manual/Outdoor	Anti-Static	Air discharge 8KV, contact protection 6KV (for all ports)
Video Effect	Brightness, contrast, saturation, hue, sharpness adjustable	Surge Protection	Difference mode ±2KV, common mode ±4KV (for network port and power port)
Noise Reduction	3D	Working Temperature	-40°F~140°F (-40°C~+60°C)
S/N Ratio	≥65dB	Storage Temperature	-4°F~140°F (-20°C~+60°C)
Horizontal Center Resolution	≥1600TVL	Humidity	0%-90% RH (non-condensing)
Defog	Available	Environmental Rating	IP67
EIS	Available	Physical	
Mirror	Horizontal/Vertical	Unit Dimensions (H×Ø)	3.33"×3.54"×11.83" (84.6mm×90mm×300.4mm)
Corridor Mode	Available	Box Dimensions (L x W x H)	14.96"×5.98"×5.12" (380mm×152mm×130mm)
AGC	Auto/Manual, up to 64X	Net Weight	2.09lbs. (0.95Kg)
BLC	Available	Shipping Weight	2.76lbs. (1.25Kg)
Day/Night	Available	Mounting	Horizontal rail mount, wall mount, pendant mount
HLC	Available	Certifications	
Smart Analytics		Product Certifications	CE, FCC, UL
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		
Sound Detection	Abnormal sound detection and fighting detection		
Statistics Detection	People counting, density detection, queue length detection and dwelling detection		

Ordering information

VH211-A50B-Q0

HD 5MP Intelligent Starlight WDR IR IP Camera, 1/2.8" CMOS, Day/Night, H.265/H.264/M-JPEG, 2.8~12mm motorized zoom lens, 70m IR illumination distance, with audio alarm, outdoor, PoE/12VDC/24VAC

Dimensions



(Unit: inch, in the parentheses is mm)