

VH211-A5 SERIES

HD 5MP INTELLIGENT LOW LIGHT WDR IR IP CAMERA

Infinova®



FEATURES

- 1/2.8" progressive scan CMOS
- Sensitivity: 0.0005 lux
- Support multi-frame integrated WDR, with a range up to 120dB
- IR-Cut Removable (ICR) Filter for true Day/Night
- Applied with Smart-IR technology to adjust the light power 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/SVC encoding formats, available with three video streams
- With embedded design and integrated TPU module, support face capture and face attribute extraction and behaviour analysis based on deep learning algorithm
- High-resolution image signal output: 2560×1920P@30fps/1920×1080@60fps
- Support vivid smart functions such as video anomaly detection, behaviour-analysis detection, sound detection, intelligent grouping detection
- Support Structurized face attributes: Face attributes like gender, glasses, eyes open, mask, mouth open and facial expression
- 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
- 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
- Powered by PoE/12VDC/24VAC
- IP67 environmental rating
- UL

DESCRIPTION

Infinova VH211-A5 series HD 5MP Intelligent Low Light WDR IR IP camera applies 1/2.8-inch CMOS sensor and 2.7~13.5mm/ 7~22mm 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/SVC video compression formats, the camera outputs high-quality images with resolution up to 2560×1920@30fps/1920×1080@60fps, 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 video structuring functions, such as face detection. It is able to output face attributes and images to the control platform for big data analysis, effectively reducing the loads and costs of smart data analysis and handling that the control platform bears.

The camera can also connect to Infinova's smart structured big-data platform seamlessly. Standard http protocol and SDK are provided to connect to the third-party platform.

The camera adopts a new integrated structural design, small and compact, easy to install. 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 (Visible)			
Image Sensor	1/2.8" progressive scan CMOS	Sample Rate	8KHz (for G.711-U/G.711-A/G.726), 16KHz, 32KHz, 44.1KHz and 48KHz (for AAC)
Optical Zoom	-	Audio Interface	1 input, Linear level; 1 output, Linear level
Digital Zoom	-	Two-way Audio	Available
Focal Length	f=2.7~13.5mm and f = 7~22 mm	Mic & Speaker	-
Iris	F1.6	Image	
Focus	Available with online assistant focus	Shutter	Auto/Manual (1/1s~1/32,000s)
FOV(H/V/D)	H:93.4°~31°; V:67.2°~23.2°; D:126°~38.6° and H:39.3°~15.5°; V: 28.8°~11.6°; D: 50.9°~19.5°	WDR	Up to 120dB
Lens Mount	M12	Exposure	Auto/Manual/Shutter
Lens (Thermal)		Sensitivity	Color mode: 0.005Lux (IR OFF); B/W mode: 0.0005Lux (IR OFF); 0 lux (IR ON)
Imager Type	-	White Balance	Auto/Manual/Outdoor
Lens Type	-	Video Adjustment	Brightness, contrast, saturation, hue, sharpness
Spectral Band	-	Noise Reduction	3D
Pixel Size	-	S/N Ratio	≥65dB
NETD	-	Defog	Available
Focal Length	-	EIS	Available
Video		Mirror	Horizontal/Vertical
Camera Resolution (Visible Lens)	5MP	Corridor Mode	Available
Camera Resolution (Thermal Lens)	-	Day/Night Switching	ICR
Max. Coding Capacity (Visible Lens)	Major stream: H.265 - 60fps@1920x1080/ Major stream: H.264/H.265-30fps@2560×1920	AGC	Auto/Manual, up to 64X
	Minor stream: H.265 - 30fps@1920x1080/ Minor stream: H.264/H.265-30fps@1920×1080	BLC	Available
Data Rate	Third stream: H.265 - 10fps@1920x1080 Third stream: H.264/H.265-30fps@384×256	HLC	Available
	VBR/CBR Major stream: 128kbps~16384kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps	Privacy Mask	Up to 4 definable zones
Video Compression	H.265/H.264/M-JPEG/SVC independent coding	ROI	Up to 8 definable zones
Multi-Streaming	Three - stream independent output	OSD	Supported
Video Rotation	Video can be rotated by 0°, 90°, 180° or 270°	Pan/Tilt Functions	
Audio		Preset	-
Audio Compression	G.711-A/ G.711-U/ G.726/ AAC	Pattern	-
		Autopan	-
		Normal Tour	-
		Home Return	-
		Timing Tour	-
		Autoscan	-
		Area Zoom	-
		IR Illumination	
		Smart-IR	Available
		Wave Length	850nm
		Night Vision Distance	70m

TECHNICAL SPECIFICATIONS

Temperature Measurement

Screening	-
Function	-
Measurement	-
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	-
Local PC Recording	Available

Alarm

Alarm Ports	2 alarm inputs, 1 on-off output
Alarm Input	I/O input, smart events, 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	-
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	<200ms
Environmental	
Anti-Static	Air discharge: 8KV; contact discharge: 6KV
Surge Protection	Difference mode: ±1KV, common mode: ±2KV
Operating Temperature	-40°F~140°F (-40°C~+60°C)
Storage Temperature	-4°F~158°F (-20°C~+70°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP67
Impact Resistance	IK10
Mechanical	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
Electrical	
Power Supply	PoE (IEEE 802.3af Class 2) /12VDC /24VAC
Power Consumption	<5W (IR off); <13W (IR on)
Physical	
Product Dimension (L×W×H) or (H x D)	3.33"×3.54"×11.83" (84.6mm×90mm×300.4mm)
Package Dimension (L x W x H)	14.96"×5.98"×5.12" (380mm×152mm×130mm)
Unit Weight	2.09lbs. (0.95Kg)
Shipping Weight	2.76lbs. (1.25Kg)
Certifications	
Product Certifications	CE, FCC, IK10, RoHS, IP67, UL

ORDERING INFORMATION

VH211-A50B-Q0	HD Megapixel Intelligent Lowlight WDR IR IP Bullet Camera, 5MP, 1/2.8" CMOS, Structurized face or pedestrian analysis, Day/night, H.265/H.264/M-JPEG/SVC, 2.7~13.5mm motorized zoom lens, IR illumination distance up to 70m, Outdoor, IP67, With audio alarm, PoE/12VDC/24VAC
VH211-A50E-Q0	HD Megapixel Intelligent Lowlight WDR IR IP Bullet Camera, 5MP, 1/2.8" CMOS, Structurized face or pedestrian analysis, Day/night, H.265/H.264/M-JPEG/SVC, 7 ~ 22 mm motorized zoom lens, IR illumination distance up to 70m, Outdoor, IP67, With audio alarm, PoE/12VDC/24VAC
Accessories	
Power Supply	
N3921-12D-1	AC to DC Power Supply, Plug-In, 230VAC, Output 12VDC, 1.5A
N3922-24A-2	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 3A
N3922-30P-2	Smart POE Injector, 100VAC-240VAC input, 30W output

***Note:** - "Confirmation of SD Card installation has to be notified with the Camera Purchase Order. Such confirmation if received on Order Readiness will attract additional cost. Please contact Infinova to know more".

DIMENSIONS

