VH211-A5 SERIES

HD 5MP INTELLIGENT LOW LIGHT WDR IR IP CAMERA

Infinova®

Smart	5.0 5.0 Mega Pixels	1/2.8" CMOS CMOS	H.265	H.264	M-JPEG	SVC
Day & Night	ONVIF	http:// Web Server	PoE	UL UL	IP67 IP67	

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
- 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 ±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 &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, 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 structurized 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
Optical Zoom	-
Digital Zoom	-
Focal Length	f=2.7~13.5mm and f = 7~22 mm
Iris	F1.6
Focus	Available with online assistant focus
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°
Lens Mount	M12

Lens (Thermal)	
Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-

Video	
Camera Resolution (Visible Lens)	5MP
Camera Resolution (Thermal Lens)	-
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265-30fps@2560×1920 Minor stream: H.264/H.265-30fps@1920×1080 Third 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
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 128kbps~16384kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps
Video Compression	H.265/H.264/M-JPEG/SVC independent coding
Multi-Streaming	Three - stream independent output
Video Rotation	Video can be rotated by 0°, 90°, 180° or 270°

Audio	
Audio Compresion	G.711-A/ G.711-U/ G.726/ AAC
Sample Rate	8KHz (for G.711-U/G.711-A/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: 0.005Lux (IR OFF); B/W mode: 0.0005Lux (IR OFF); 0 lux (IR ON)
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	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~140°F (-20°C~+60°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