

VH211-A50E-Q0

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
- 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 7~22 mm 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 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

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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------|
| 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= 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: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 |
| FOV | - | Mirror | Horizontal/Vertical |
| Video | | Corridor Mode | Available |
| Camera Resolution (Visible Lens) | 5MP | Day/Night Switching | ICR |
| Camera Resolution (Thermal Lens) | - | AGC | Auto/Manual, up to 64X |
| 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 | BLC | Available |
| Max. Coding Capacity (Thermal Lens) | - | HLC | Available |
| Data Rate | 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

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Video Analytics | Sound Detection - Abnormal sound detection and fight detection |
| | Statistics Detection - Counting, density detection, queue length detection and dwelling detection |
| Video Analytics | Intelligent Grouping Detection- Behaviour analysis grouping, face capture grouping. |
| | Face capture - Supports face detection, tracking and capturing. |
| Video Analytics | Optimum Selection- Supports optimum selection and duplicate removal for captured target images to deliver the best-quality images. |
| | Face Exposure - Available |
| Video Analytics | Face attributes - gender, glasses, eyes open, mask, mouth open and facial expression (angry, disgusted, fearful, happy, sad, surprised or neutral) |
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| 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 |

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| 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

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| 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

