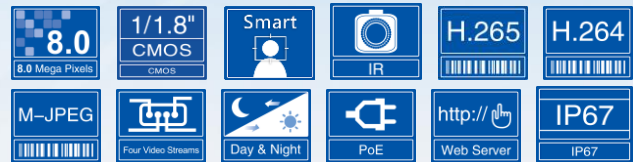# VS211-A60B-A0 Series
HD 8.0MP Starlight Intelligent
IR IP Fixed Camera

Infinova®
The Integrator's Manufacturer

- 1/1.8 " progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Sensitivity: 0.0001 lux
- Uses Smart-IR technology; auto-adjusts IR lamp power according to ambient illumination
- Built-in dot matrix IR illuminators up to 60 meters night vision distance
- High-resolution image signal output: 3840 x 2160@30fps
- Supports frame integration WDR, with dynamic range up to 120dB
- Built-in motorized zoom lens, supporting assistant focusing
- H.265/H.264/M-JPEG video encoding, four streams
- Supports vivid intelligent detection functions:
  - 7 abnormal video detections: camera tampering, scene change, defocus, low brightness, high brightness, video loss, and color cast
  - 10 behavior-analysis detections: motion detection, wire crossing detection, intrusion detection, loitering detection, object abandoned detection, object lost detection, abnormal sound detection, crowd detection, fast moving detection, and fighting detection
  - 4 statistics detections: people counting, density detection, queue length detection, and dwelling detection
  - 3 feature detections: face detection, vehicle detection, and people detection
- Based on deep learning, supports face detection, face tracking and snapshot.
- Supports snapshots priority selection and duplicate deletion, which means captured face images can have a prioritized selection according to the face angle and the image definition so as to ensure the invalid images will not be uploaded to the server to waste its capacity. Face images or scene images can be uploaded to the platform for secondary research and analysis.
- Able to detect faces within depression angle ±20°, right and left deflection ±40°, and right and left tilt ±30°.
- Able to detect faces that the pupil distance is as much as 20 pixels.
- Able to detect 32 faces simultaneously in a scene.
- With a width of 8m in the center area of face detection, it can effectively cover every major entrance/exit and reduce the schedule cost.
- Supports intelligent exposure on face
- Supports regional configuration of face detection, compatible with large scene surveillance and face capture
- Supports built-in storage/NAS
- Bi-directional audio, G.711-U/G.711-A/AAC

- 2 alarm inputs, 1 on-off output
- Supports multiple alarm trigger methods such as I/O input, intelligent detection, SD card removal, SD picture full, SD record full, network disconnection, heartbeat loss, etc.; supports flexible alarm association settings like I/O output, emails, FTP picture uploading, audio, TF card recording and alarm information push
- Up to 8 ROI (Region of Interest) areas
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible with Infinova digital video surveillance software
- Standard SDK is provided for easy integration with other systems
- Onvif Profile S. Onvif Profile G
- POE/12VDC/24VAC power supply
- IP67 environmental rating
- With analog video output.

Infinova VS211-A60B-A0 Series Starlight Intelligent IR IP bullet camera features 1/1.8" progressive scan CMOS sensor and built-in megapixel 2.8-12mm motorized Vari-focus lens. With H.265/H.264/M-JPEG compression format utilized, this camera can output HD videos with the resolution of 3840x2160@30fps. The built-in dot matrix IR illuminators allow a maximum of 60 meters night vision distance.

Boasts of rich intelligent functions, this camera supports facial detection and face snapshot. The facial detection could be set as alarm events and would trigger image capture and upload the images to our V2233 Intelligent Platform for secondary detection and analysis. The camera applies to the "spot detection" in the video surveillance of Safe City.

Compact structure makes the camera easy to install.

VS211-A6 series camera is widely used in normal buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other high-resolution surveillance applications.
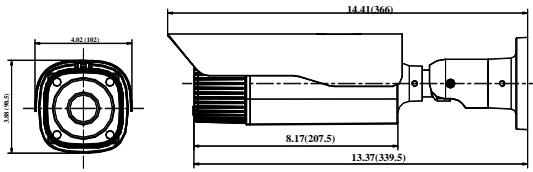
Technical specifications

Image Sensor	1/1.8 " progressive scan CMOS	Smart Video Analytics	Supports face detection, face tracking and snapshot based on deep learning
Lens Configuration	Motorized vari-focus lens, F1.5, f=2.8-12mm		Supports snapshots priority selection and duplicate deletion. Face images or scene images can be uploaded to the platform for secondary research and analysis
Lens Mount	Φ14		
Day/Night Switching	ICR		Supports intelligent exposure
IR Lamp Wave Length	850nm	Alarm	2 alarm inputs, 1 on-off output
Night Vision Distance	60m	Input	I/O input, intelligent detection, SD card removal, SD picture full, SD record full, network disconnection, heartbeat loss
Sensitivity	Color mode: 0.001Lux@ c B/W mode: 0.0001Lux @ F1.5(AGC ON) 0 lux (IR ON)	Linkage	I/O output, emails, FTP picture uploading, audio, TF card recording, alarm information push, SD card snapshot, and SD card recording
Exposure	Scene, Manual, Shutter	Privacy Mask	Up to 4 masks
Shutter	Auto/Manual (adjustment range 1/1s-1/32000s)	ROI	Up to 8 regions
AGC	Auto/Manual adjustable, max. 64X	Internal Storage	Supports dual storage cards, compatible with Micro SD/SDHC/SDXC card (up to 128GB for one card)
White Balance	Auto/Manual/Outdoor	Network Protocols	IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3, DHCP, SNMP (V1, V3), FTP, SMTP, NTP, RTC, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x, QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter, TLS, DES, Multicast
WDR	Supports frame integration WDR, with dynamic range up to 120dB		
Video Adjustment	Brightness, contrast, saturation, chroma, sharpness		
Noise Reduction	3D	IP Address Filter	Available
Defog	Available	Operating System	Windows XP, Win7, Win8, Windows10
EIS	Available	Browser	IE8, IE9, IE10,IE11
Corridor Mode	Available	Access Protocol	ONVIF Profile S & Profile G, CGI 2.7
Image Mirror	Horizontal/Vertical mirror	Remote Network Upgrade	Available
Video Rotation	90°, 180°, 270°clockwise rotation	Password Protection	Available
Video Compression	H.265/H.264/M-JPEG	Network Port	One RJ45 10/100M self-adaptive Ethernet port
Max. Encoding Capacity	H.264/H.265 −30fps@3840x2160+30fps@1920x1080+ 30fps@1920x1080+30fps@(720x576/720x480) H.264/H.265+M-JPEG −30fps@3840x2160+30fps@1920x1080+M-JPEG 30fps@3840x2160+30fps@(720x576/720x480)	Analog Video Output	Available, BNC connector
		Power Supply	PoE (IEEE 802.3af)/12VDC(±20%)/24VAC(±25%)
		Power	<13W
Video Encoding	Supports independent outputting four streams	Protection Design	Lighting protection (network port and power supply connector): protection differential mode 2KV, common mode 2KV surge; Anti-static (all ports): contact protection 6KV static, 8KV air discharge
Network Delay	220ms		
Audio	Compression: G.711-A/G.711-U/AAC Sampling rate: 8KHz (for G.711-A, G.711-U), 16KHz 32 KHz, 44.1KHz, 48 KHz optional (for ACC) Port: 1 linear input, 1 linear output		
		Certification	UL,CE,FCC
		Operating Temperature	-40°F ~ 140°F (-40°C ~ 60°C)
Smart Video Analytics	**Abnormal video detections**: camera tampering, scene change, defocus, low brightness, high brightness, video loss, and color cast **Behavior-analysis detections**: motion detection, wire crossing detection, intrusion detection, loitering detection, object abandoned detection, object lost detection, abnormal sound detection, crowd detection, fast moving detection, and fighting detection **Statistics detections:** people counting, density detection, queue length detection, and dwelling detection **Feature detections:** face detection, vehicle detection, and people detection	Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
		Operating Humidity	0%~95% RH (non-condensing)
		Unit Dimensions (L×W×H)	14.41"×4.02×3.88" (366mm×102mm×98.5mm)
		Box Dimensions (L×W×H)	16.38"×6.73×5.35" (416mm×171mm×136mm)
		Unit Weight	3.75lbs. (1.7Kg)
		Shipping Weight	4.63lbs. (2.1Kg)

Ordering information

VS211-A60B-A0   HD IR IP fixed camera, Starlight, WDR, Smart, 8.0Mpx, 1/1.8 inch CMOS sensor, Day/night, H.265/ H.264 /M-JPEG, 2.8~12mm motorized Vari-focus lens, with audio alarm, 60m IR distance, PoE/12VDC/24VAC

Dimensions

(Unit: inch, in the parentheses is mm)