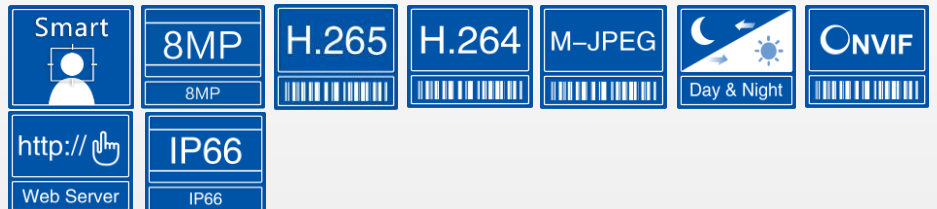


# VS351-A60LCJW-PA

8MP HD IR IP INTEGRATED CAMERA

**Infinova**<sup>®</sup>



## FEATURES

- 1/1.8" Large area progressive scanning CMOS sensor
- Ultra-low illumination: 0.0005 lux
- Supports frame integration WDR, with dynamic range up to 132dB
- Inbuilt efficient infrared lamps of 850nm wave length to ensure stable long-term use and reduce maintenance cost.
- Night vision distance up to 100 meters
- The infrared power is adjusted automatically based on dome drive zooming or manually to optimize the night vision fill-in light effects.
- Built-in motorized zoom lens, supports for auxiliary focusing.
- H.265/H.264/M-JPEG, six video streams.
- The chip is integrated with TPU module, and supports face detection, tracking and capture based on deep learning algorithm.
- HD network video output: 3840 x 2160@25fps
- Features rich smart functions such as video anomaly detection, behaviour-analysis detection, sound detection, statistics detection, intelligent grouping detection
- Support multi-target detection, tracking and snapshot; support optimum selection and duplicate removal for captured images; small face images and panoramic images are optional to be uploaded to platforms for secondary analysis and retrieval
- 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  $\pm 45^\circ$
- Able to detect face images with a minimum of 30x30 pixels at 1080P
- Able to detect 60 target objects simultaneously in a single scene
- Up to 8 ROI (Region of Interest) areas.
- Onvif Profile S/G & T and RTSP compliant
- Bi-directional audio, G.711-A/G.711-U/AAC /G.726standard optional
- 2 alarm inputs, 1 on-off output
- Micro SD card
- IP66 protection rate, inbuilt a heater and air circulation system to avoid icing

# DESCRIPTION

Based on deep-learning algorithm, VS351-A6 series HD IR IP integrated camera is endowed with vivid smart functions. It's able to detect 60 faces at the same time, and the detection rate of blurred face, large Angle face, small size face has been greatly improved. It's able to output images to the backend platform for big data analysis, which effectively reduces loads and costs of smart analysis and handling that the control platform bears. Standard http protocol and SDK are provided to connect to the third-party platform.

The camera has a built-in HD integrated camera module, utilizes large size progressive scanning CMOS sensor and motorized zoom lens. It provides high quality video with the resolution up to 3840x2160@25fps, adopts H.265/H.264/M-JPEG compression formats, outputs six video streams and boasts of excellent resolution and color reproduction ability to ensure richer and more accurate details to be acquired and also guarantee the accuracy of intelligent analysis in a more effective way. The camera adopts large power LED infrared lamps, with infrared wave length of 850nm, covering up to 100m for night view. The IR lamps can turn on or off automatically based on environmental lighting conditions or can be adjusted manually.

VS351-A6 can be widely used in city surveillance, road monitoring, entrance surveillance for subways, shopping mall, supermarket and large venues, crowded places like train stations, airports and other demanding applications.

# TECHNICAL SPECIFICATIONS

<b>Lens (Visible)</b>	
Image Sensor	1/1.8" progressive scan CMOS
Optical Zoom	Motorized zoom lens
Digital Zoom	-
Focal Length	f=8-32mm
Iris	F4.6
Focus	Available with online assistant focus
FOV(H/V/D)	H: 44.5° (W) ~ 14.5° (T); V: 24.4° (W) ~ 28.3° (T)
Lens Mount	Build-in Mount
<b>Lens (Thermal)</b>	
Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-
FOV	-
<b>Video</b>	
Camera Resolution (Visible Lens)	8MP
Camera Resolution (Thermal Lens)	-
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265 -25fps@3840x2160 Minor stream: H.264/H.265 -25fps@1280x720 Third stream: H.264/H.265 -25fps@384x256 Fourth stream: H.264/H.265 -25fps@384x256 Fifth stream: H.264/H.265 -25fps@384x256 Sixth stream: H.264/H.265 -25fps@384x256 Major stream: H.264/H.265 -25fps@3840x2160 Minor stream: H.264/H.265 -25fps@1280x720 Third stream: M-JPEG - 25fps@1920x1080 Fourth stream: H.264/H.265 -25fps@384x256 Fifth stream: H.264/H.265 -25fps@384x256 Sixth stream: H.264/H.265 -25fps@384x256
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 128kbps~16384kbps Minor stream: 128kbps~8192kbps Third stream: 128kbps~512kbps

Video Compression	Fourth stream: 128kbps~512kbps Fifth stream: 128kbps~512kbps Sixth stream: 128kbps~512kbps
Multi-Streaming	H.265/H.264/M-JPEG
Video Rotation	Six - stream independent output
<b>Audio</b>	Video can be rotated by 0°, 90°, 180°, 270°
Audio Compression	G.711-A, G.711-U, G.726, AAC
Sample Rate	8KHz (for G.711-A/G.711-U/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	-
<b>Image</b>	
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	≥62dB
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
<b>Pan/Tilt Functions</b>	
Preset	-
Pattern	-
Autopan	-
Normal Tour	-
Home Return	-

# TECHNICAL SPECIFICATIONS

Timing Tour	-
Autoscan	-
Area Zoom	-
<b>IR Illumination</b>	
Smart-IR	Available
Wave Length	850nm
Night Vision Distance	100m
<b>Temperature Measurement</b>	
Screening Function	-
Measurement	-
Measurement Distance	-
Measurement Range	-
Accuracy	-
<b>Smart Analytics</b>	
Video Analytics	<p>Video Anomaly Detection - Camera tampering, camera shifting, defocus detection, high brightness detection, low brightness detection, video loss detection, color cast detection, and motion detection</p> <p>Behaviour Analysis Detection - Wire crossing detection, intrusion detection, object abandoned detection, object lost detection, loitering detection, crowd detection, fast moving detection</p> <p>Sound Detection - Abnormal sound detection and fight detection</p> <p>Statistics Detection - Counting, density detection, queue length detection and dwelling detection</p> <p>Intelligent Grouping Detection - Face detection grouping, behaviour analysis grouping</p> <p>Multi-object detection - Support face detection</p> <p>Capture - Support target detail capture</p> <p>Optimum Selection - Support optimum selection and duplicate removal for captured images to deliver the best-quality images</p> <p>Detection Angle - Tilt up or down <math>\pm 45^\circ</math>, turn right or left <math>\pm 45^\circ</math>, or lean right or left <math>45^\circ</math></p> <p>Minimum Face Size - Able to detect face images with a minimum of 30*30 pixels at 1080P</p> <p>Detection Capability - Able to detect 60 face images simultaneously in a single scene</p> <p>Face Exposure - Available</p>
<b>Storage</b>	
Storage Slots	Support single card
Built-in Storage	up to 512GB
NAS Storage	-
Local PC Recording	Available
<b>Alarm</b>	
Alarm Ports	2 alarm inputs, 1 on/off output
Alarm Input	I/O input, smart analysis, SD card removal, SD card full with videos, SD card full with images, network disconnection, heartbeat loss
Alarm Association	I/O output, email, FTP picture uploading, audio, SD card recording, SD card snapshot, alarm info push
<b>System Functions</b>	
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	Available
Analog Video Output	-
Maximum Number of Users	64, with 3 types of users available: administrator, normal user, and operator
Wiper	-
<b>Network</b>	
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
<b>Environmental</b>	
Anti-Static	Air discharge 8KV; Contact protection 6KV
Surge Protection	Differential mode $\pm 4KV$ , common mode $\pm 6KV$
Operating Temperature	$-40^\circ F \sim 140^\circ F$ ( $-40^\circ C \sim +60^\circ C$ )
Storage Temperature	$-20^\circ C \sim +60^\circ C$
Operating Humidity	$\leq 95\% RH$
Environmental Rating	IP66
Impact Resistance	-
<b>Mechanical</b>	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
<b>Electrical</b>	
Power Supply	24VDC /24VAC
Power Consumption	<45W
<b>Physical</b>	
Product Dimension (LxWxH) or (H x D)	391.8mm x 148.6mm x 135.2mm
Package Dimension (L x W x H)	460mm x 215mm x 230mm
Unit Weight	3.56kg
Shipping Weight	4.4kg
<b>Certifications</b>	
Product Certifications	CE, FCC, IP66, RoHS

# ORDERING INFORMATION

VS351-A60LCJW-PA	HD IR IP Integrated Box Camera, 8MP, 1/1.8"CMOS, Day/Night, Smart Facial Recognition, WDR, H.265/H.264/M-JPEG, 8-32mm motorized zoom lens, night vision distance up to 100m, with audio alarm, IP66, 24VDC/24VAC
<b>Accessories</b>	
<b>Mount</b>	
V1573-A	Wall Mount, H/V adjustable for housing, 88.19 lbs. (40 kg) load, Cable Management
V1573-B	Cross-bar Mount, H/V adjustable for VS351 integrated camera and V1406-15S-L housing, 33.07 lbs. (15 kg) load
<b>Power Supply</b>	
N3922-24D-3	AC to DC Power Supply, Plug-In, 230VAC, Output 24VDC, 3A
N3922-24A-3	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 3A

**\*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

