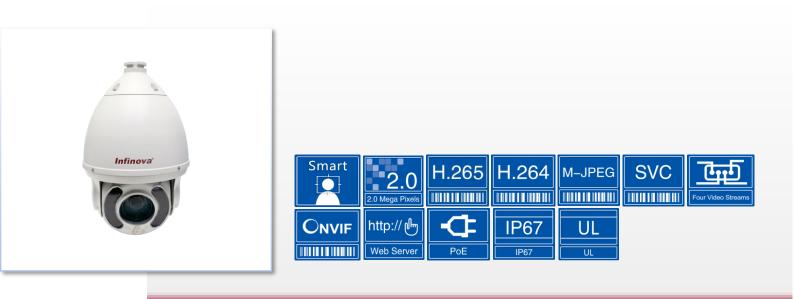
# VS231-A2 SERIES

HD 2MP SMART STARLIGHT IR IP PTZ DOME CAMERA





## **FEATURES**

- The chip is integrated with TPU module, and supports video structuration function based on deep learning algorithm.
- HD network video output: 1920x1080@60fps
- Built-in 30X HD integrated camera module
- 1/1.8"Large area progressive scanning CMOS sensor
- Ultra-low illumination: 0.0005 lux
- Supports frame integration WDR, with dynamic range up to 120dB
- Inbuilt efficient infrared lamps of 850nm wave length to ensure stable long-term use and reduce maintenance cost.
- Night vision distance up to 300 meters
- The infrared power is adjusted automatically based on dome drive zooming or manually to optimize the night vision fill-in light effects
- H.265/H.264/M-JPEG/SVC video encoding, quad video streams
- 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 structurized images; small face images and panoramic images are optional to be uploaded to platforms for secondary analysis and retrieval

- Support structurized object attributes: able to detect face, pedestrian, motor vehicle and non-motor vehicle.
  Supports vehicle-pedestrian mode and vehicle mode such as Face attributes, Pedestrian attributes, Motor vehicle attributes, non-motor vehicle attributes
- Supports the simultaneous output of vehicle panorama, vehicle details and license plate.
- 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
- Able to detect 30 target objects simultaneously in a single scene
- Up to 8 ROI (Region of Interest) areas.
- Onvif Profile S/G/T and RTSP compliant
- Supports preset, autopan, pattern, autoscan, timed tour, normal tour, scene tour, power-on return, etc.
- 2 alarm inputs, 1 on-off output
- Micro SD card
- Supports water-proof breather valve
- IP67 environmental rating for outdoor use
- IK10UL

## DESCRIPTION

Based on deep-learning algorithm, VS231-A2 series HD IR IP dome camera is endowed with vivid smart functions and video structuring functions such as face detection, pedestrian detection, motor vehicle detection and non-motor vehicle detection. It's able to output target attributes and 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. 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 has a built-in HD integrated camera module, utilizes large size progressive scanning CMOS sensor and has an internal 30X optical zoom lens. It provides high quality video with the resolution up to 1920x1080@60fps, adopts H.265/H.264/M-JPEG /SVC compression formats, outputs four 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 300m for night view. The IR lamps can turn on or off automatically based on environmental lighting conditions or can be adjusted manually. The IR illumination allows flexible adjustment so as to reduce IR lamp calorific value and extend its service life.

VS231-A2 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**

Lens (	(Visi	ble)

Image Sensor	1/1.8" progressive scanning CMOS
Optical Zoom	30X
Digital Zoom	12X
Focal Length	f=6~180mm
Iris	F1.6~F4.8
Focus	Auto/Manual
FOV(H/V/D)	H: 58.4° ~ 2.1°; V: 42° ~ 1.2°; D: 65.5° ~ 2.4°
Lens Mount	-
Lens (Thermal)	
Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-
FOV	-
Video	
Camera Resolution (Visible Lens)	2MP
Camera Resolution (Thermal Lens)	-
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265 -60fps@1920x1080 Minor stream: H.264/H.265 -30fps@1920×1080 Third stream: H.264/H.265 -30fps@384×256 Fourth stream: H.264/H.265 -30fps@384×256 Major stream: H.264/H.265 -60fps@1920×1080 Minor stream: H.264/H.265 -30fps@1920×1080 Third stream: MJPGE -30fps@1920×1080 Fourth stream: H.264/H.265 -30fps@384×256
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps
Video Compression	H.265/H.264/M-JPEG/SVC independent coding
Multi-Streaming	Four-stream independent output

Video Rotation	Video can be rotated by 0°, 90°, 180°, 270°
Audio	
Audio Compression	G.711-A/ G.711-U/ G.726/ AAC
Sample Rate	8KHz (for G.711-A/G.711-U/G.726),
oumpie nute	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
Constitute	Color mode: 0.005lux (IR OFF);
Sensitivity	B/W mode: 0.0005lux (IR OFF); 0 Lux (IR ON)
White Balance	Auto/Manual/Outdoor
Males Advertures	Brightness, contrast, saturation, hue,
Video Adjustment	sharpness
Noise Reduction	3D
S/N Ratio	≥62dB
Defog	Available
EIS	Available
Mirror	Horizontal, Vertical
Corridor Mode	-
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	1024
Pattern	12
Autopan	12
ratopan	16 groups (each tour can link to 14 actions,
Normal Tour	optional with Presets 1~32, Patterns 1~4 and
	Autopans 1~4)
Home Return	Available
Timing Tour	Available
Autoscan	Available
Area Zoom	Available
	Availabit

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## **TECHNICAL SPECIFICATIONS**

Smart H     Available       Wave Length     450mm       Night Vision     300m       Distance     300m       Streeening     -       Function     -       Measurement     -       Distance     -       Measurement     -       Distance     -       Measurement     -       Cacuracy     -       Smart Analytics     -       Video Anomaly Detection - Camera tampering, carenas situation, calection, high brightness detection, high brightness detection, how ingrittees detection, and more adtection, low ingrittees detection, and more adtection, low ingrittees detection, and reget fail detection, adjust of the more and fail with images, normalized fail with images, and statatage fail detection, andream with general with wit				
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Night Vision     Storage     Supports aingling human body and human face during the tracking process       Storage     Supports aingling human body and human face during the tracking process     Storage       Weasurement     -     Up to 512GB     Up to 512GB       Measurement     -     Up to 512GB     Up to 512GB       Measurement     -     -     Alarm Ports     2 alarm inputs; a rowd for the tracking process       Storage     Storage     Storage     Storage     Up to 512GB       Measurement     -     -     -     -     -       Storage     2 alarm inputs; a rowd for the tracking process     -     -     -       Accuracy     -	Smart-IR	Available		
Distance     Storage     Gene during the tracking process       Streening     -	Wave Length	850nm		
Udeo Anomaly Detection - Camera tampering, Camera shifting, defocus detection, and measurement   Strange	Night Vision	200m		
Screening   - Instrument     Function   - Instrument     Measurement   - Instrument     Measurement   - Instrument     Measurement   - Instrument     Accuracy   - Instrument     Smart Analytics   Video Anomaly Detection - Camera tampering, error tampoing,	Distance	30011		face during the tracking process
Function     -     Built-in Storage     Up to 51228       Measurement     - <td>Temperature Me</td> <td>asurement</td> <td>Storage</td> <td></td>	Temperature Me	asurement	Storage	
Measurement   -     Measurement   -     Measurement   -     Measurement   -     Measurement   -     Measurement   -     Anne   -     Measurement   -     Anne   -     Accuracy   -     Smart Analytics   Video Anomaly Detection - Camera tampering, oragenet and the detection, nobing that the detection, nobing that the detection, nobing that the detection, nobing that the detection, object abland one detection, object abland one detection, object abland one detection, object abland one detection - Where crossing detection and target fail detection and target fail detection and fight detection and fight detection and fight detection and fight detection and target fail detection - Structuraged face detection apports face, pedestrian, motor vehicle, and non-motor vehicle detection apport face, pedestrian, motor vehicle, and non-motor vehicle detection apport face, pedestrian attributes; generic age (youth, middle aged, elderty) or tensage (youth, middle aged, elderty) or spiels (middle aged, elderty) or tensage (youth, middle aged, elderty) or tensage (youth, middle aged, elderty) or spiels (middle aged, elderty) or tensage (youth, middle aged, elderty) or tensage (youth, middle aged, elderty) o	Screening	-	Storage Slots	Supports single card
Measurement   - <td< td=""><td>Function</td><td>-</td><td>Built-in Storage</td><td>Up to 512GB</td></td<>	Function	-	Built-in Storage	Up to 512GB
Distance     Image: Im	Measurement	-	NAS Storage	-
Distance     Image: Im			Local PC Recording	Available
Measurement Pange     -     Alarm Ports     2 alarm inputs, 1 cn/off output       Accuracy     - </td <td></td> <td>-</td> <td></td> <td></td>		-		
Pange     -       Smart Analytics     -       Smart Analytics     Visco Anomaly Detection - Camera tampering, camera shifting, defocus detection, high brightness detection, olor cast detection, and motion detection intrusion detection, and motion detection, intrusion detection, intrusion detection, intrusion detection, fast moving detection and motion detection, intrusion detection, fast moving detection and fight detection - Counting, density detection and fight detection - Counting, density detection and fight detection - Counting, density detection and fight detection - Sund Detection - Abnormal sound detection and fight detection - Support fail detection and fight detection - Support fail detection and target detection and welling detection and fight detection - Support fail detection and hybrid detection and welling detection and hybrid detection and hybrid detection - Support faile, and non-motion while detection and dueling detection and welling detection and welling detection and welling detection and hybrid fail detection - Counting, density detection and welling detection and hybrid fail detection - Counting, density detection and welling detection and hybrid fail detection - Counting, density detection and welling detection and dueling detection - Counting, density detection and welling detection and welling detection and welling detection and welling detection and hybrid fail detection - Counting, density detection and welling detection and welling detection and hybrid fail detection - Counting, density detection and hybrid fail detection - Counting, density detection and hybrid fail detection - Counting, density detection and fail detection - Counting, density detection and hybrid fail detection - Counting, density detection and fail detection - Counting, density detection and fail detection - Counting density detection and fail detection - Count whick detection and fail detecti			Alarm Ports	2 alarm inputs, 1 on/off output
Accuracy   -   Alarm Input   and Iull with videos, SD card full with images, and the with videos SD card snapshot, alarm into unsite output, enal, FTP picture uploading, audit use host detection, low brightness detection, and motion detection. Intrusion detection, add motion detection, natives of detection, color cast detection, and motion detection, natives of detection, color cast detection, and motion detection. Intrusion detection, fast moving detection and fight detection fast moving detection and treated to state the state of the stat		-		
Smart Ánalytics   Video Anomaly Detection - Camera tampering, camera shifting, defocus detection, high brighiness detection, clock	-	-	Alarm Input	
Video Anomaly Detection - Camera tampering, camera shifting, defocus detection, high brightness detection, now hightness detection, and motion detection   Video Anomaly Detection - Counting, the stress of the s				
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or splicing), top color (white, black, red, yellow, grey, blue, green, dark grey or purple), bottom style (long pants, shorts, skirt, stripes or patterns), bottom color (white, black, red, yellow, grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate number, license plate number, license plate, white and greon)Temperature Storage Temperature $140°F (-20°C ~ 60°C) (PoE+, outdoor)StorageTemperature-4°F ~ 140°F (-20°C ~ 60°C)-4°F ~ 140°F (-20°C ~ 60°C)Manual SpeedPreset ResistanceIP67Manual SpeedPreset SpeedIK10Manual SpeedPan: 0.1° ~ 1000°/s; Tilt: 0.1° ~ 300°/sPreset Accuracygreen and other), license plate number, licenseplate aclar (vallow while, white and green)Preset Accuracyplack white and green)$			Operating	-40°F ~ 158°F (-40°C ~ 70°C) (outdoor) -4°F ~
grey, blue, green, dark grey or purple), bottom style (long pants, shorts, skirt, stripes or patterns), bottom color (white, black, red, yellow, grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate ander (vellow khue black white and green)Storage Temperature-4°F~140°F (-20°C~60°C)Storage Temperature-4°F~140°F (-20°C~60°C)Operating Humidity Environmental Impact Resistance≤ 95% RHImpact Resistance Impact ResistanceIK10Manual SpeedPan: 0.1° ~1000°/s; Tilt: 0.1° ~ 300°/sPreset SpeedUp to 400°/sRotation Angle Perset Accuracy electric MotorPan: 360°; Tilt: -5° ~ 90° (auto-flip)Preset Accuracy Electric Motor<±0.1°			Temperature	140°F (-20°C ~ 60°C) (PoE+, outdoor)
style (long pants, shorts, skirt, stripes or patterns), bottom color (white, black, red, yellow, grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate ander (vellow, blue, blue, blue, white, and greon)Temperature-4 H × 140 F (-20 C × 00 C)Temperature-4 H × 140 F (-20 C × 00 C)				
patterns), bottom color (white, black, red, yellow, grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate actor (vellow, blue, blue, blue, blue, white and green)Operating Humidity ≤ 95% RH IP67≤ 95% RH IP67Manual Speed Pan: 0.1° ~1000°/s; Tilt: 0.1° ~ 300°/sImpact Resistance Manual SpeedIK10Manual Speed Preset SpeedUp to 400°/sPreset Speed Rotation Angle Preset Accuracy < ±0.1°				-4°F~140°F (-20°C~60°C)
grey, blue, green, dark grey or purple), glasses, hat, backpack, shoulder bag, holding kids, objects in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate acler (vellow white head green)Environmental RatingIP67Impact Resistance MechanicalIK10Manual Speed Pan: 0.1° ~1000°/s; Tilt: 0.1° ~ 300°/sPreset Speed VD to 400°/sUp to 400°/sPreset Speed Color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate acler (vellow white and green)Preset Accuracy Electric MotorElectric MotorStepping motor			Operating Humidity	≤ 95% RH
nat, backpack, shoulder bag, holding kids, objects   Rating     in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate actor (vallew klue blue blue klue, klue klue, klue klue, klue klue klue klue klue klue klue klue			Environmental	1967
in hand, protective clothing, safety helmet, direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate acler (vellow, blue, blu		hat, backpack, shoulder bag, holding kids, objects	Rating	IP67
direction (front, back, side) - Motor vehicle attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate acler (vellow, blue, bl		in hand, protective clothing, safety helmet,	-	IK10
attributes: Types (car, tricycle, truck, pickup trucks, van, bus), vehicle brands, vehicle body color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate acler (vellow, blue, blue				
trucks, van, bus), vehicle brands, vehicle body   Preset Speed   Up to 400°/s     color (black, blue, brown, green, grey, white, red,   Preset Speed   Up to 400°/s     yellow, pink, purple, dark grey, silver, orange,   Preset Accuracy   <±0.1°				Pan: 0.1° ~1000°/s: Tilt: 0.1° ~ 300°/s
color (black, blue, brown, green, grey, white, red, yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate color (vallow, blue, black, white and green)Preset Accuracy telectric MotorPan: 360°; Tilt: -5° ~ 90° (auto-flip)Preset Accuracy Electric Motor<				
yellow, pink, purple, dark grey, silver, orange, green and other), license plate number, license plate color (vallow blue black white and green)			-	
green and other), license plate number, license plate color (vallow blue black white and green)			-	
plate color (vallow blue black white and green)				
place obior (Vellow, black, black, mile and green), Electrical		plate color (yellow, blue, black, white and green),	Electrical	Stepping motor
license plate types (small car plate large car			Electrical	
plate new energy vehicle license plate large Power Supply			Power Supply	
truck or trailer license plate) direction(front rear				
left, right, left front, right front, left rear and right		left, right, left front, right front, left rear and right	Power Concumption	
real) - Nor-motor vehicle attributes: type (bicycle,				
motorcycle), equipped with umbrella, helmet,		motorcycle), equipped with umbrella, helmet,		

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Physical

Product Dimension (H x D) Package Dimension (L x W x H)

14.6" × Φ9.04" (370.4mm × Φ229.6mm)

19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)

Unit Weight Shipping Weight Certifications Product Certifications 12.79 lbs (5.8kg) 16.76 lbs (7.6kg)

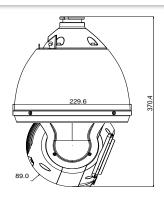
CE, FCC, RoHS, IP67, IK10, UL

#### **ORDERING INFORMATION**

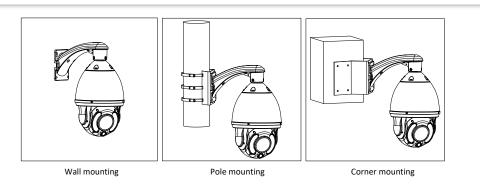
VS231-A230-A061	HD Megapixel IR IP PTZ Dome Camera, Intelligent face capture, Starlight, WDR, 2MP, 30X, 1/1.8" CMOS, Day/night, H.265/H.264/M-JPEG, With audio alarm, Outdoor, Bracket mount, PoE/24VDC/24VAC
Accessories	
Mount	
V1761K	Wall Mount, bayonet, 10 inches
V1762K	Corner Mount, bayonet, 10 inches
V1763K	Pole-side Mount, bayonet, 10 inches
Power Supply	
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
N3922-75P-2	Smart POE Injector, 100VAC-240VAC input, 75W 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



### MOUNTING



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