

## SV144DX

# 5MP IR Vari Focal Dome Al Network Camera



















### **SMD 4.0**

Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an Al NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

### AI SSA

Al Scene Self-adaptation (Al SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### **Perimeter Protection**

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In

restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

### Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

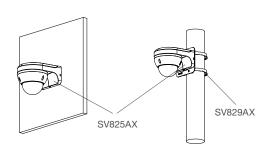
### **Cyber Security**

Network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

### **Accessories**







1



### **Technical specification**

Camera:

Image Sensor: 1/2.7" CMOS

Max. Resolution: 2960 (H) × 1668 (V)

ROM: 128 MB RAM: 512 MB

Scanning System: Progressive

Electronic Shutter Speed: Auto/Manual 1/3 s-1/100,000 s

Min. Illumination:

- 0.005 lux@F1.5 (Color, 30 IRE) - 0.0005 lux@F1.5 (B/W, 30 IRE)

- 0 lux (Illuminator on) S/N Ratio: >56 dB

Illumination Distance: Up to 40 m (131.23 ft) Illuminator On/Off Control: Auto/Manual

Illuminator Number: 3 (IR LED) Pan/Tilt/Rotation Range:

- Pan: 0°-355° - Tilt: 0°-80° - Rotation: 0°-355°

Lens:

Lens Type: Motorized vari-focal

Lens Mount: Ø 14

Focal Length: 2.7 mm-13.5 mm

Max. Aperture: F1.5 Field of View: - Horizontal: 114°-32°

- Vertical: 58°-17°- Diagonal: 138°-36°Iris Control: Fixed

Close Focus Distance: 0.8 m (2.62 ft)

- DORI Distance:

Lens, W: Detect 64.0 m (209.97 ft)

Observe 25.6 m (83.98 ft) Recognize 12.8 m (41.99 ft) Identify 6.4 m (21.00 ft)

Lens, T: Detect 210.0 m (688.98 ft)

Observe 84.0 m (275.59 ft) Recognize 42.0 m (137.80 ft) Identify 21.0 m (68.90 ft)

Intelligence:

IVS (Perimeter Protection): Tripwire, intrusion (support the classification and accurate detection of vehicle and human)

AI SSA: Yes

Quick Pick: With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Smart Search: Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Video:

Video Compression: H.265; H.264; H.264H; H.264B;

MJPEG (only supported by the sub stream)

Smart Codec: - Smart H.265+

- Smart H.264+

Al Coding:

- AI H.265

- AI H.264

Video Frame Rate:

- Main stream: 2880 × 1620 @ (1-20) fps /

2960 × 1668 @ (1–20) fps / 2688 × 1520@(1–25/30 fps)

- Sub stream 1: 704 × 576 @ (1–25 fps)/ 704 × 480 @ (1–30 fps)

- Sub stream 2: 1920 × 1080 @ (1–25/30 fps)

\* The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total

encoding capacity

Stream Capability: 3 streams

Resolution: 5M (2880  $\times$  1620/2960  $\times$  1668);

4M (2688  $\times$  1520); 3.6M (2560  $\times$  1440); 3M (2048  $\times$  1536); 3M (2304  $\times$  1296); 1080p (1920  $\times$  1080); 1.3M(1280  $\times$  960);

720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)

Bit Rate Control: CBR/VBR

Video Bit Rate:

- H.264: 3 kbps-8192 kbps- H.265: 3 kbps-8192 kbps

Day/Night: Auto (ICR)/Color/B/W BLC: Yes

HLC: Yes WDR: 120 dB

Scene Self-adaptation (SSA): Yes

White Balance: Auto; natural; street lamp; outdoor; manual;

regional custom Gain Control: Auto Noise Reduction: 3D NR

Motion Detection: OFF/ON (4 areas, rectangular)
Image Stabilization: Electronic Image Stabilization (EIS)

Region of Interest (RoI): Yes (4 areas)

Defog: Yes AFSA: Yes

Image Rotation: 0°/90°/180°/270° (support 90°/270° with

2688 × 1520 resolution and lower)

Mirror: Yes

Privacy Masking: 4 areas

Audio:

Built-in MIC: Yes

Audio Compression: G.711a; G.711Mu; PCM; G.726; G.723



#### **Alarm Event:**

ZS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception

### **Network:**

Network Port: RJ-45 (10/100 Base-T)

SDK and API: Yes

Network Protocol: IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS;

SAMBA; PPPoE; SNMP; P2P

Cyber Security: Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade

Interoperability: ONVIF (Profile S/Profile G/Profile T); CGI

User/Host: 20 (Total bandwidth: 64 M)

Storage: FTP; SFTP; Micro SD card (support max. 256 G);

NAS

Browser:

- IE: IE11

ChromeFirefox

Management Cof

Management Software: Daitem Capture

SmartPSS Lite; DSS; DMSS Mobile Client: iOS; Android

### **Certification:**

CE-LVD: EN62368-1:

CE-EMC: Electromagnetic Compatibility Directive 2014/30/

EU;

FCC: 47 CFR FCC Part 15, Subpart B;

UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

#### Power:

Power Supply: 12 VDC/PoE (802.3af)

Power Consumption:

- Basic: 4 W (12 VDC); 4.9 W (PoE)

 Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE)

### **Environment:**

Operating Temperature: -30 °C to +60 °C (-22 °F to 140 °F)

/Less than 95% RH

Storage Temperature: -40 °C to +60 °C (-40 °F to 140 °F)

Protection: IP67; IK10

### Structure:

Casing: Metal

Product Dimensions: 94 mm × Ø 122 mm

Net Weight: 713 g (1.57 lb) Gross Weight: 986 g (2.17lb)

### **Dimensions**

