Dahua TECHNOLOGY

DH-SD3A400-GN-A-PV
4 MP Full-Color Network PT Camera

- 1/3" 4Megapixel STARVIS™ CMOS
- IR distance up to 30 m
- H.265 Encoding
- PoE
- Max. 25/30 fps@4 MP
- IVS

| Two-way Audio | Sound and Light Alarm | Smart Dual Illuminator | Human Detection | Tripwire | Intrusion |

System Overview

Dahua Smart Dual Illuminators Camera adopts advanced smart H.265 encoding technology with high encoding efficiency, provides high-quality video, and reduces the cost of transmission and storage. This series integrates infrared and warm light smart illumination , realizes human shape detectionn, siren and light active deterrence and other functions, achieves the application of retrospect, intervention and precaution.

Functions

Intelligent Video Analysis (IVS)
Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency.

Smart Dual Illuminators
Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Wide Dynamic Range
The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, WDR optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Siren and Light Active Deterrence
Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

Smart H.265+
Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Scene

It is suitable for families, fish ponds, orchards, rural courtyards, small factories, supermarkets and other places.

Technical Specification

Camera

Image Sensor	1/3" STARVIS™ CMOS
Max. Resolution	2560 x 1440
Effective Pixels	4MP
ROM	128M
RAM	128M
Electronic Shutter Speed	1/3 s–1/30,000s
Scanning Mode	Progressive
Minimum Illumination	Color: 0.002Lux@F1.6 B/W: 0.0002 Lux@F1.6 0 Lux (illuminator on)
IR Distance	30 m (98.42 ft) (IR) 30 m (98.42 ft) (white light)
IR On/Off Control	Auto; Manual; Off
IR LED Number	2 IR lights; 2 white light

Lens

Focal Length	4 mm
Aperture	F1.6
Field of View	H:80.2°, V:43.1°, D:94.3°
Close Focus Distance	0.3 m (0.98 ft)
Iris Control	Fixed

DORI Distance	Detect	Observe	Recognize	Identify
	55.1 m (180.77 ft)	21.9 m (71.85 ft)	10.6 m (34.78 ft)	4.6 m (15.09 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 355° Tilt: -15° to 90°
Manual Control Speed	Pan: 0.1°/s–26°/s Tilt: 0.1°/s–17.5°/s
Preset Speed	Pan: 26°/s; Tilt: 17.5°/s
Presets	300
Power-off Memory	Support
Idle Motion	Preset

Smart Event

IVS	Tripwire; intrusion

Video

Compression	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)
Streaming Capability	2 Streams
Resolution	4M (2560 x 1440); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 4M (1–25/30 fps); 1080p (1–25/30 fps); 1.3M (1–25/30 fps); 720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)
Bit Rate Control	Variable Bit Rate/Constant Bit Rate

Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 32 Kbps–8192 Kbps
Day/Night	Support
BLC	Support
WDR	DWDR
HLC	Support
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Motion Detection	Support
S/N Ratio	≥ 55 dB
Flip	180°

Certifications

Certification	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014

Audio

Audio Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723

Port

Two-way Audio	Support
Audio Input	1 channel (Line in/Built-in Mic)
Audio Output	1 channel (Line out/Built-in Speaker)
Audio I/O	1/1
Alarm Linkage	Capture; preset; SD card record; send email; audio
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Network

Ethernet Port	1 RJ-45 Port 10/100Base-T
Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; SSL; FTP; ARP; RTCP; RTP; IP Filter; RTMP; TCP
Interoperability	ONVIF Profile S&G&T
Streaming Method	Unicast/Multicast
Max. User Access	20
Edge Storage	FTP; Micro SD card (256G)
Management Software	Smart PSS ;DMSS; player; configtool; NVR; Smart Player
Mobile Phone	IOS; Android; iPhone; iPad; Windows Phone
Browser	IE, Chrome, Firefox, Safari

Electrical

Power Supply	12 VDC/1.5A±10% PoE(802.3af)
Power Consumption	4 W 12.95 W (illuminator)

Environment

Operating Conditions	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤ 95% RH
Ingress Protection	IP66,TVS 2000 V lightning proof; surge protection; voltage transient protection

Construction

Dimensions	271.7 mm × 165.5 mm × 140 mm (107" × 6.52" × 5.51")
Net Weight	1.07 kg (2.36 lb)
Gross Weight	1.46 kg (3.21 lb)
Accessory	Wall/Ceiling/Pole mount bracket

Ordering Information

Type	Model	Description
4M Camera	DH-SD3A400-GN-A-PV	4MP Full-Color Network PT Camera
	SD3A400-GN-A-PV	4 MP Full-Color Network PT Camera
Accessories (optional)	12 VDC/1.5A	Power Adapter

Accessories

Optional:

12 VDC/1.5A
Power Adapter

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
/	/	/

Dimensions (mm[inch])