Dahua TECHNOLOGY

DH-SD3A200-GN-A-PV

2MP IR and White Light Full-color Network PT Camera

· 1/2.8" 2Megapixel STARVIS™ CMOS
· IR distance up to 30m
· H.265 Encoding
· PoE
· Max. 25/30fps@1080P
· IVS

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

System Overview

Driven by advanced smart H.265 encoding technology, Dahua Smart Dual Illuminators Camera combines precision and reliability into one powerful camera, achieving high encoding efficiency, producing seamless videos and reducing cost on transmission and storage. To meet a wide range of shooting situations, this series of high-performant cameras features functions such as infrared and warm light smart illumination, human shape detection, and siren and light active deterrence. It also achieves the application of retrospect, intervention and precaution, delivering the convenience needed in a modern camera.

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

The 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 use by families and in fish ponds, orchards, rural courtyards, small factories, supermarkets and other similar locations.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	1920(H) × 1080(V)
Pixel	2MP
ROM	128MB
RAM	128MB
Electronic Shutter Speed	1/3s–1/100,000s
Scanning System	Progressive
Min. Illumination	Color: 0.002 Lux@F1.6 B/W: 0.0002 Lux@F1.6 0 Lux (illuminator on)
Illumination Distance	30 m (98.42 ft) (IR) 30 m (98.42 ft) (white light)
Illumination On/Off Control	Auto/Manual/Off
Illumination Number	2 (IR light) 2 (white light)

Lens

Focal Length	4.0mm
Max. Aperture	F1.6
Field of View	H: 88.9°; V: 47.7°; D: 104.7°
Close Focus Distance	0.3 m (0.98ft)
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
Preset	300
Power-off Memory	Support
Idle Motion	Preset

Smart Event

IVS	Tripwire; intrusion

Video

Video Compression	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG(Sub Stream)
Streaming Capability	2 Streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 1080P/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)

Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 32 Kbps–8192 Kbps
Day/Night	Auto (ICR)/Color/B/W
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
Image Rotation	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; recording; send email ;audio
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Network

Network Port	RJ-45 (10/100 Base-T)
Network 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;CGI
Streaming Method	Unicast/Multicast
User/Host	20
Storage	FTP; Micro SD card (256G)
Management Software	Smart PSS; DMSS; player; configtool; NVR; Smart Player
Mobile Client	IOS; Android; iPhone; iPad; Windows Phone
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari

Power

Power Supply	12 VDC/1.5A±10% PoE (802.3af)

Power Consumption	Basic: 4 W Max: 12.95 W (illuminator)

Environment

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

Construction

Product 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
2 MP Camera	DH-SD3A200-GN-A-PV	2MP IR and White Light Full-color Network PT Camera
	SD3A200-GN-A-PV	2MP IR and White Light 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])

70.0 [2.76]
70.0 [2.76]
4−Ø4.5 [Ø0.18]
271.7 [10.70]
140.0 [5.51]
165.5 [6.52]
SØ110.0 [SØ4.33]