

30x Starlight Laser PTZ Dome

2 MP Indoor/Outdoor Network Camera



System Overview

Featuring a True Day/Night, 2-megapixel resolution, Pan/Tilt/Zoom (PTZ) camera with a 30x optical zoom lens, this series provides an allin-one solution for capturing long distance video surveillance for outdoor applications. Together with its infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day and True WDR for applications with direct sunlight or glare.

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.002 lux).

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, Heat Map, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

- Max 60 fps at 720p and 30 fps at 1080p
- Powerful 30x Optical Zoom
- Starlight Ultra-low Light Technology
- Laser Beam Distance Up to 500 m (1640 ft)
- Intelligent Video System with Auto-tracking
- Built-in 7/2 Alarm in/out
- Outdoor Rated IP67
- Hi-PoE
- Five-year Warranty



Defog

Untilizing Dahua's advanced algorithm tecchnology, the Defog feature dynamically adjusts the camera's contrast settings to provide satisfying image quality in scenes affected by fog, smog, mist, smoke or other lowcontrast scenes. Regardless of weather conditions, the quality and relevancy of video images are improved with the Defog feature.

Auto-tracking

The camera supports single-scene and multiple-scene auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protectection against the camera and its structure from the effects of lightning.



Ultra Series | SD6ALA230FN-HNI

Technical Specification

Camera

Image Sensor	1/1.9-in. Exmor CMOS
Effective Pixels	1944 H x 1092 V
Scanning System	Progressive
Electronic Shutter Speed	1/1 to 1/30,000s
Minimum Illumination	Color: <u>0.002 Lux at F1.6;</u> B/W: <u>0.0002 Lux at F1.6;</u> 0 Lux (IR on)
S/N Ratio	More than 56 dB
IR Distance	500 m (1640 ft)
IR On/Off Control	Auto / Manual
IR LEDs	1

Lens

Lens Type	Motorized/ Auto Iris
Mount Type	Board-in
Focal Length	6mm~180mm (30x Optical zoom)
Max Aperture	F1.6 to F4.8
Angle of View	H: 61.2° to 2.1°
Focus Control	Auto / Manual
Close Focus Distance	100 mm to 1000 mm

PTZ

Pan/Tilt Range	Pan: 0° to 360° Endless, Tilt: -20° to 90°, Auto Flip 180°	
Manual Control Speed	Pan: 0.1° to 240° /s; Tilt: 0.1° to 120° /s	
Preset Speed	Pan: 240° /s; Tilt: 200° /s	
Presets	300	
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Speed Setup	Human-oriented focal length/ speed adaptation	
Power up Action	Auto restore to previous PTZ and lens status after power failure	
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	
Time Task	Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time	
Protocol	DH-SD, Pelco-P/D (Auto recognition)	

Auto-tracking

Auto Tracking	Single-scene and multiple-scene
Tracking Trigger Mode	Manual / Auto (alarm triggered)
Tracking Trigger Event	Targeting, Zoom, Tracking, Recording, Snapshot, Alarm

Video Compression Smart H.265+ / MJPEG **Streaming Capability** 3 Streams 1080p (1920 × 1080) / 720p (1280 × 720) / Resolution D1 (704 × 576/704 × 480) / CIF (352 × 288/352 × 240) Main Stream: 1080p / D1 (1 to 30 fps), 720p (1 to 60 fps) Sub Stream 1: D1/CIF (1 to 30 fps) Sub Stream 2: 720p/D1/CIF (1 to 30 fps) **Bit Rate Control** CBR / VBR H.264: 56 K to 8192 Kbps, Bit Rate MJPEG: 56 K to 20480 Kbps Day/Night Auto (ICR) / Color / B/W **BLC Mode** BLC / HLC / WDR (120 dB) White Balance Auto, ATW, Indoor, Outdoor, Manual **Gain Control** Auto / Manual Ultra DNR (2D/3D) **Noise Reduction** Off / On (4 Zone, Rectangle) **Motion Detetion** Off / On (4 Zone) **Region of Interest** Electronic Image Support Stabilization (EIS) Smart IR Support Support Defog 16x **Digital Zoom** 0°/180° **Privacy Masking** Up to 24 Areas Δudio

Audio	
Compression	G.711a / G.711Mu (32 kbps)/ PCM (128 kbps)
Interface	1/1 Channel In/Out
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming method	Unicast / Multicast
Max. User Access	20
Edge Storage	Micro SD (128GB) Memory Status Display (Normal / Error/ Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for Instant Recording, Micro SD, Max 128GB
Web Viewer	IE10
Management Software	Smart PSS, DSS
Smart Phone	Android, IOS

Flip

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Certifications

Certifications	FCC (SEFV1505156-A)
Interface	
Video Interface	BNC (1.0 Vp-p /75 Ω), PAL/NTSC
Audio Interface	Input/Output 1 Input / 1 Output
RS485	Support
Alarm	7/2 In/Out
Flectrical	

Electrical

Power Supply	24V AC ±25%, Hi-PoE
Power Consumption	Max. 20 W/43 W (24 VAC, IR OFF / ON), Max. 11.5 W/12.9 5W (Hi-PoE, IR OFF / ON

Environmental

Operating Conditions	-40°C to +70°C (-40°F to +158°F) / Less than 90% RH *Start up should be done at above -35°C (-31°F)
Storage Conditions	-30°C to +60°C (-22°F to +140°F) / Less than 90% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	Φ240.0 mm x 357.0 mm (Φ9.45 in. x 14.06 in.)
Net Weight	6.9 kg (15.2 lbs)
Gross Weight	10.9 kg (24.03 lbs)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera.
An object moves through any part of the scene.
A target crosses a user-defined line.
A target enters or exits a defined perimeter.
A person or object moves the camera to change the scene or covers the camera to obscure the scene.
A target leaves an object in designated area, or a target removes an object from the same designated area.
Detects and captures a snapshot of a human face in a defined area within a scene.
Generates a visual representation of data.
Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.

Ordering Information

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	Туре	Part Number	Description
	2 MP Camera	DH-SD6ALA230FN-HNI	2MP HD PTZ 30x Zoom, Starlight Laser Camera, True WDR, Auto- tracking, IVS (power supply included)
		DH-PFB303W	Wall Mount Bracket (Included)
		DH-PFA111	Mount Adapter (Included)
		DH-PFB300C	Ceiling Mount Bracket
Acc	Accessories	DH-PFB303S	Parapet Mount Bracket
	Accessores	DH-PFA140	Junction Box
		DH-PFA120	Water-proof Junction Box
		DH-PFA150	Pole Mount Bracket
		DH-PFA151	Pole Mount Bracket

Accessories

Included:







DH-PFB303W Wall mount

DH-PFA111 Power supply Mount adapter









DH- PFB303S Parapet mount







DH- PFA140

Junction box

DH- PFA120 Junction box

DH-PFA150 DH-Pole mount Pole

DH-PFA151 Pole mount

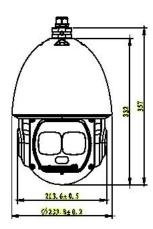
www.dahuasecurity.com/en/us

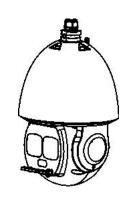
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Installation

Parapet Mount	Ceiling Mount	Wall Mount
PFA111+PFB303S	PFA111+PFB300C	PFA111+PFB303W+PFA120
Pole Mount	Junction Mount	Corner Pole Mount
PFA111+PFB303W+PFA140	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151

Dimensions (mm/inch)







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