

DH-SD60230U-HNI

2MP 30x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · Starlight technology
- · H.265 Encoding
- Max. 50/60fps@1080P
- Auto-tracking and IVS
- · Support PoE+
- · IP67, IK10















System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

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.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

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Technical Spe	cification			Auto Tracking	Support
Camera				IVS	Tripwire, Intrusion, Abandoned/Missing
Image Sensor 1/2.8" STARVIS™ CMOS		Advanced Intelligent Functions	Face Detection, Heat Map		
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Video			
RAM/ROM	5	512M/128M		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Str
Scanning System	F	Progressive		Streaming Capability	3 Streams
Electronic Shutter S	Speed 1	1/1s~1/30,000s		Resolution	1080P(1920×1080)/720P(1280×720)/
Minimum Illuminat	ion (Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6		Resolution	D1(704×576/704×480)/CIF(352×288/352×24
R Distance N/A			Main stream: 1080P/1.3M/ 720P(1~50/60fps		
IR On/Off Control		N/A		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR LEDs N/A				Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
Lens				Bit Rate Control	CBR/VBR
Focal Length	4	4.5mm~135mm		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Max. Aperture	F	F1.6 ~ F4.4		Day/Night	Auto(ICR) / Color / B/W
Angle of View	H	H: 67.8° ~ 2.4°		Backlight Compensation	BLC / HLC / WDR (120dB)
Optical Zoom	3	30x		White Balance	Auto, ATW, Indoor, Outdoor, Manual
ocus Control	A	Auto/Manual		Gain Control	Auto / Manual
Close Focus Distanc	ce 1	100mm~ 1000mm		Noise Reduction	Ultra DNR (2D/3D)
OORI Distance				Motion Detection	Support
	stance is a "genera	al proximity" of distance wh	nich makes it easy to	Region of Interest	Support
*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.			alculated based on which defines the	Electronic Image Stabilization (EIS)	Support
Detect	Observe	Recognize	Identify	Defog	Support
.862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)	Digital Zoom	16x
PTZ				Flip	180°
an/Tilt Range	F	Pan: 0° ~ 360° endless; Tilt:	-20° ~ 90°,auto flip 180°	Privacy Masking	Up to 24 areas
Manual Control Speed		Pan: 0.1° ~300° /s; Tilt: 0.1°	~150° /s	Audio	
Preset Speed		Pan: 600° /s; Tilt: 500° /s		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Presets 30		300		Network	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Ethernet	RJ-45 (10Base-T/100Base-TX)
Speed Setup H		Human-oriented focal Length/ speed adaptation		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UF ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DF DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,
Power up Action		Auto restore to previous PTZ and lens status after power failure		Interoperability	ONVIF Profile S&G, API
Activate Preset/ Scan/ Tour/ Pattern if there is no		Activate Preset/ Scan/ Tour,		Streaming Method	Unicast / Multicast

Protocol

Intelligence

Event Trigger

command in the specified period

DH-SD, Pelco-P/D (Auto recognition)

Motion detection, Video tampering , Scene

changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly

Max. User Access

Edge Storage

Web Viewer

Smart Phone

Management Software

IE, Chrome, Firefox, Safari

Smart PSS, DSS, DMSS

IOS, Android

NAS (Network Attached Storage),Local PC for

instant recording, Micro SD card 256GB

20 users

Certifications

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

Electrical

Power Supply	AC24V/3A(±25%), PoE+(802.3at)
Power Consumption	13W,20W (Heater on)

Environmental

Operating Conditions	-40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф222(mm) x 292(mm)
Net Weight	3.5kg(7.72lb)
Gross Weight	7.5kg(16.53lb)

^{*}When the vertical field of view is between –20° and 5°, the image might present different degrees of ghosting.

Ordering Information		
Туре	Part Number	Description
	DH-SD60230U-HNI	2MP 30x Starlight PTZ Network Camera, WDR, PAL
2MP PTZ	DH-SD60230UN-HNI	2MP 30x Starlight PTZ Network Camera, WDR, NTSC
Camera	SD60230U-HNI	2MP 30x Starlight PTZ Network Camera, WDR, PAL
	SD60230UN-HNI	2MP 30x Starlight PTZ Network Camera, WDR, NTSC
	PFB303W	Wall Mount
	PFA111	Mount Adapter
	AC24V/3A	Power Adapter
	PFA140	Power Box
Accessories	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:



PFB303W Wall Mount



PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

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

Dimensions (mm)

