

DH-SD50230U-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 to +60 °C (-40 °F to +140 °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 $\pm 10\%$ 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.



Technical Spec	ification			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		512M/128M		Compression	H.265+/H.265/H.264+/H.264	
Scanning System		Progressive		Streaming Capability	3 Streams	
Electronic Shutter Speed 1/1s~1/30,000s		Developing	1080P(1920×1080)/1.3M(1280×960)/720P(1280×			
Minimum Illumination	Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6		Resolution	720)/D1(704×576/704×480)/CIF(352×288/352×240		
S/N Ratio More than 55dB			Main stream: 1080P/1.3M/720P(1~50/60fps)			
IR Distance		N/A	Frame Rate		Sub stream1: D1/CIF(1 ~ 25/30fps)	
IR On/Off Control		N/A			Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
IR LEDs		N/A		Bit Rate Control	CBR/VBR	
Lens				Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
Focal Length		4.5mm~135mm		Day/Night	Auto(ICR) / Color / B/W	
Max. Aperture		F1.6 ~ F4.4		Backlight Compensation	BLC / HLC / WDR (120dB)	
Angle of View		H: 67.8° ~ 2.4°		White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Optical Zoom		30x		Gain Control	Auto / Manual	
Focus Control		Auto/Manual		Noise Reduction	Ultra DNR (2D/3D)	
Close Focus Distance 100mm [~] 1000mm			Motion Detection	Support		
DORI Distance				Region of Interest	Support	
*Note: The DORI distance is a "general proximity" of distance which makes it easy to				Electronic Image Stabilization (EIS)	Support	
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.		Defog	Support			
Detect	Observe	Recognize	Identify	Digital Zoom	16x	
1862m(6109ft)	744m(2441ft)		186m(610ft)	Flip	180°	
PTZ	, ,	,	(1.1.4)	Privacy Masking	Up to 24 areas	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: 0	o° ~ 90° auto flin 180°	Audio	Audio	
Manual Control Spee	ed	Pan: 0.1° ~350° /s; Tilt: 0.1° ~		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Preset Speed		Pan: 500° /s; Tilt: 500° /s		Network		
Presets		300		Ethernet	RJ-45 (10Base-T/100Base-TX)	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		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	
Speed Setup		Human-oriented focal Length/ speed adaptation		Interoperability	ONVIF Profile S&G, API	
Power up Action		Auto restore to previous PTZ and lens status after power failure		Streaming Method	Unicast / Multicast	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Max. User Access	20 users	
		DH-SD		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Intelligence		Web Viewer	IE, Chrome, Firefox, Safari			
		Motion detection, Video tampering , Scene		Management Software	Smart PSS, DSS, DMSS	
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Smart Phone	IOS, Android	

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	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	13W,23W (Heater on)

Environmental

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	Ф186(mm) x 253(mm)
Net Weight	2.5kg(5.51lb)
Gross Weight	4.5kg(9.92lb)

Ordering Information

Ordering information			
Туре	Part Number	Description	
	DH-SD50230U-HNI	2MP 30x Starlight PTZ Network Camera, WDR, PAL	
2MP PTZ	DH-SD50230UN-HNI	2MP 30x Starlight PTZ Network Camera, WDR, NTSC	
Camera	SD50230U-HNI	2MP 30x Starlight PTZ Network Camera, WDR, PAL	
	SD50230UN-HNI	2MP 30x Starlight PTZ Network Camera, WDR, NTSC	
	PFB300S	Wall Mount	
	PFA110	Mount Adapter	
	AC24V/1.5A	Power Adapter	
	PFA140	Power Box	
Accessories	PFB300C	Ceiling Mount	
	PFA120	Water-proof Junction Box	
	PFA150	Pole Mount	
	PFA151	Corner Mount	
	PFB303S	Parapet Mount	

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/1.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Pole Would	Corner Mount	. Parapet Mount
Ceiling Mount		Junction Mount
PFA110 + PFB300C		PFA110 + PFB300S + PFA120
Power Box Mount		Pole Mount
PFA110 + PFB300S + PFA14	0	PFA110 + PFB300S + PFA150
Corner Mount		Parapet Mount
PFA110 + PFB300S + PFA1	51	PFA110 + PFB303S

Dimensions (mm)



