

# DH-SD6C230U-HNI

2MP 30x Starlight IR 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
- · IR distance up to 150m
- · IP66











# **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 ~ 60°C (-40°F ~ +140°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### **Protection**

The camera allows for ±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 Specification					Auto Tracking	Support
Camera				IVS	Tripwire, Intrusion, Abandoned/Missing	
Image Sensor 1/2.		1/2.8" STARVIS	1/2.8" STARVIS™ CMOS		Advanced Intelligent Function	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			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280x
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			Resolution	720)/D1(704×576/704×480)/CIF(352×288/352×240  Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio		More than 55dB			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		Distance up to 150m (492ft)			ridille kate	Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR On/Off Control		Auto/Manual			Bit Rate Control	CBR/VBR
IR LEDs		6			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Lens					Day/Night	Auto(ICR) / Color / B/W
Focal Length		4.5mm~135mr	m		Backlight Compensation	BLC / HLC / WDR (120dB)
Max. Aperture		F1.6 ~ F4.4			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View		H: 67.8° ~ 2.4°			Gain Control	Auto / Manual
Optical Zoom		30x			Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual				
Close Focus Distance		100mm~ 1000	mm		Motion Detection	Support
DORI Distance					Region of Interest  Electronic Image Stabilization	Support
*Note: The DORI	listance is a "gen	eral proximity" c	of distance whi	ch makes it easy to	(EIS)	Support
pinpoint the right sensor specification	n and lab test re	sult according to	EN 62676-4 w		Defog	Support
criteria for Detect	1			Identifi.	Digital Zoom	16x
Detect	Observe	Recogn		Identify	Flip	180°
1862m(6109ft)	744m(2441	ft) 372m(	1220ft)	186m(610ft)	Privacy Masking	Up to 24 areas
PTZ					Audio	
Pan/Tilt Range  Manual Control Sp	need			15° ~ 90°,auto flip 180°	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
·	.ccu	Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s			Network	
Presets		Pan: 240° /s; Tilt: 200° /s			Ethernet	RJ-45 (10Base-T/100Base-TX)
Presets 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,
Speed Setup		Human-oriented focal Length/ speed adaptation			Interoperability	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
Power up Action		Auto restore to previous PTZ and lens status after power failure			Interoperability Streaming Method	ONVIF Profile S&G, API Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no			Max. User Access	20 users
Protocol		command in the specified period  DH-SD, Pelco-P/D (Auto recognition)			Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Intelligence				Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Management Software	Smart PSS, DSS, DMSS	
				Smart Phone	IOS, Android	

#### Certifications

/EN55024/EN50130-4 subpartB,ANSI C63.4- 2014
-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	2/1

#### **Electrical**

Power Supply	AC24V/3A(±10%)
Power Consumption	10.5W, 26W (IR on)

#### **Environmental**

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

#### Construction

Casing	Metal
Dimensions	Ф205(mm) x 336(mm)
Net Weight	5kg(11.02lb)
Gross Weight	8.3kg(18.30lb)

#### **Ordering Information** Type Part Number Description 2MP 30x Starlight IR PTZ DH-SD6C230U-HNI Network Camera, WDR, PAL 2MP 30x Starlight IR PTZ DH-SD6C230UN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 30x Starlight IR PTZ SD6C230U-HNI Network Camera, WDR, PAL 2MP 30x Starlight IR PTZ SD6C230UN-HNI Network Camera, WDR, NTSC 64FB Wall Mount AC24V/3A Power Adapter PFA114 Mount Adapter PFB303W Wall Mount PFA140 Power Box Accessories PFB300C Ceiling Mount PFA120 Junction Box PFA150 Pole Mount PFA151 **Corner Mount** PFB303S Parapet Mount

# **Accessories**

#### Included:

Optional:





64FB Wall Mount

Power Adapter







PFA114

Mount Adapter

PFB303W Wall Mount

PFA140 Power Box









PFB300C Ceiling Mount

PFA120 Junction Box

PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount		
PFA114 + PFB300C	PFA114 + PFB303W + PFA120		
Power Box Mount	Pole Mount		
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150		
Corner Mount	Parapet Mount		
PFA114 + PFB303W + PFA151	PFA114+ PFB303S		

# Dimensions (mm)



