

DH-SD52C131U-HNI

720P 31x Starlight PTZ Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 31x optical zoom
- · H.265 Encoding
- · Starlight technology
- Max. 25/30/50/60fps@720P
- Auto-tracking and IVS
- · Support PoE+
- · 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 -30°C ~ 60°C (-22°F ~ +140°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating.

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.



Took wise LCv-	oificeties				Auto Trackis -	Cupport
Technical Specification				Auto Tracking	Support	
Camera					IVS	Tripwire, Intrusion, Abandoned/Missing
•		1/2.8" STARVIS™ CMOS			Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels 1280(H) x 720(280(H) x 720(V), 1 Megapixe	els		Video	
RAM/ROM 10		1024M/128M			Compression	H.265+/H.265/H.264+/H.264
Scanning System P		Progressive			Streaming Capability	3 Streams
Electronic Shutter Speed		1/1s~1/30,000s			Resolution	720P(1280× 720)/D1(704×576/704×480)/ CIF(352×288/352×240)
Minimum Illumination Col-		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6			Frame Rate	Main stream: 720P(1~50/60fps)
S/N Ratio		More than 55dB				
IR Distance		N/A				Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control		N/A				Sub stream2: 720P/D1/CIF (1~25/30fps)
IR LEDs	N,	N/A			Bit Rate Control	CBR/VBR
Lens					Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length 4.8		4.8mm~150mm			Day/Night	Auto(ICR) / Color / B/W
Max. Aperture	F1	F1.6 ~ F4.4			Backlight Compensation	BLC / HLC / WDR (120dB)
Angle of View H: 58		: 58.3° ~ 1.9°			White Balance	Auto, ATW, Indoor, Outdoor, Manual
-		31x			Gain Control	Auto / Manual
		Auto/Manual			Noise Reduction	Ultra DNR (2D/3D)
		100mm~ 1000mm			Motion Detection	Support
DORI Distance					Region of Interest	Support
	stance is a "general	I proximity" of distance whic	ch makes it easy to		Electronic Image Stabilization (EIS)	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.				Defog	Support	
Detect	Observe	Recognize	Identify		Digital Zoom	16x
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)		Flip	180°
PTZ	04011(21131)	323III(1000IC)	101111(32011)		Privacy Masking	Up to 24 areas
	D	0° o 200° II Tile 0°	2 × 000 t - fli- 1000		Audio	
Pan/Tilt Range Manual Control Spe		Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180° Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s			Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed	Pa	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,
Speed Setup		Human-oriented focal Length/ speed adaptation				ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, 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	ONVIF Profile S&G, API
		Activate Preset/ Scan/ Tour/ Pattern if there is no			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
Protocol		DH-SD			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

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

Environmental

Operating Conditions	$\text{-}30^{\circ}\text{C} \simeq 60^{\circ}\text{C} \text{ (-}22^{\circ}\text{F} \simeq +140^{\circ}\text{F)} \text{ / Less than 95\% RH}$	
Ingress Protection	N/A	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	Ф198(mm) x 177(mm)
Net Weight	2.2kg(4.85lb)
Gross Weight	3.7kg(8.16lb)

Ordering Information

ordering information					
Туре	Part Number	Description			
	DH-SD52C131U-HNI	720P 31x Starlight PTZ Network Camera, WDR, PAL			
720P PTZ	DH-SD52C131UN-HNI	720P 31x Starlight PTZ Network Camera, WDR, NTSC			
Camera	SD52C131U-HNI	720P 31x Starlight PTZ Network Camera, WDR, PAL			
	SD52C131UN-HNI	720P 31x Starlight PTZ Network Camera, WDR, NTSC			
Accessories	AC24V/1.5A	Power Adapter			

Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm)



