

# DH-SD50131U-HNI

720P 31x Starlight PTZ Network Camera



- 1/2.8" STARVIS™ CMOS
- · Powerful 31x optical zoom
- · H.265 Encoding
- · Starlight technology
- · Max. 50/60fps@720P
- · Auto-tracking and IVS
- · Support PoE+
- · IP67, IK10















#### **System Overview**

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD50 series PTZ camera can provide large monitoring range and great detail. The camera delivers 720P resolution at 50/60 fps, with 31x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD50 series PTZ is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

# **Functions**

#### Starlight Technology

Thanks to our experience and expertise in hardware and software development, the camera is equipped with the latest image processing algorithm, high performance hardware and high quality optical components, which make the camera have very exellent low light performance. In most conditions, this camera can deliver clear, bright and low-noise color images.

#### Wide Dynamic Range

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

# **Auto-tracking**

The camera supports 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.

# High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

#### Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

### Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

### Interoperability

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



Technical Specification				Video		
Camera			Compression		H.265/H.264 / MJPEG	
Image Sensor 1/2.8		1/2.8" STARVIS™ CMOS		Streaming Capak	oility	3 Streams
Effective Pixels 1280(H) x 720(V), 1 Megapixels		Resolution		720P(1280×720)/D1(704×576/704×480)/CIF(352× 288/352×240)		
RAM/ROM 1024M/128M			Main stream	720P(1 ~ 50/60fps)		
Scanning System		Progressive		Frame Rate	Sub stream1	D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed 1/1s~1/300,000s		:	Sub stream2	720P/D1/ CIF (1 ~ 25/30fps)		
Minimum Illuminati	Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6		Bit Rate Control		CBR/VBR	
S/N Ratio More than 55dB		Bit Rate		H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps		
IR Distance N/		N/A		Day/Night		Auto(ICR) / Color / B/W
IR On/Off Control		N/A		Backlight Compe	ensation	BLC / HLC / WDR (120dB)
IR LEDs N		N/A		White Balance		Auto,ATW,Indoor,Outdoor,Manual
Lens				Gain Control		Auto / Manual
Focal Length 4.8mi		4.8mm~150mm		Noise Reduction		Ultra DNR (2D/3D)
Max. Aperture F1.6 ~		F1.6 ~ F4.4		Motion Detetion		Support
Angle of View H: 58.		H: 58.3° ~ 1.9°		Region of Interes	st	Support
Optical Zoom 31x		31x		Electronic Image		Support
Focus Control Auto		Auto/Manual		Stabilization (EIS	)	
Close Focus Distanc	ce 1	100mm~ 1000mm		Defog		Support
DORI Distance				Digital Zoom		16x
pinpoint the right ca	amera for your nee	al proximity" of distance which eds. The DORI distance is cal	culated based on	Flip		180°
		sult according to EN 62676-4 which defines the nize and Identify respectively.		Privacy Masking		Up to 24 areas
Detect	Observe	Recognize	Identify	Audio		C 744- IC 74484. IA AC IC 722 I C 726 IC 720 I
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)	Compression		G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
PTZ				Network		
Pan/Tilt Range	P	Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180°		Ethernet		RJ-45 (10/100Base-T)
Manual Control Spe	eed P	Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s		Protocol		IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP,
Preset Speed	P	Pan: 500° /s; Tilt: 500° /s		11010001		DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Presets		300		Interoperability		ONVIF, PSIA, CGI
PTZ Mode	5	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Metho	od	Unicast / Multicast
Speed Setup	H	Human-oriented focal Length/ speed adaptation		Max. User Acces	S	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage		NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Web Viewer		IE, Chrome, Firefox, Safari
Protocol		DH-SD		Management So	ftware	Smart PSS, DSS
Intelligence				Smart Phone		IOS, Android
Auto Tracking		Support		Certifications	Certifications	
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection		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
Audio Interface	1/1
RS485	N/A
Alarm	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 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10

#### Construction

Casing	Metal
Dimensions	Ф186.0(mm) x 253(mm)
Net Weight	2.5kg(5.51lb)
Gross Weight	4.5kg(9.92lb)

#### **Ordering Information** Description Type Part Number 720P 31x Starlight PTZ DH-SD50131U-HNI Network Camera, WDR, PAL 720P 31x Starlight PTZ Network DH-SD50131UN-HNI Camera, WDR, NTSC 720P PTZ Camera 720P 31x Starlight PTZ Network SD50131U-HNI Camera, WDR, PAL 720P 31x Starlight PTZ Network SD50131UN-HNI Camera, WDR, NTSC PFB300S Wall Mount PFA110 Mount Adapter AC24V/1.5A Power Supply PFA140 Power box PFB300C Ceiling Mount Accessories PFA120 Junction Box PFA150 Pole Mount PFA151 PFB303S Parapet mount

# Accessories

#### Included:







PFA110 Mount Adapter



AC24V/1.5A Power Supply

# Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA110 + PFB300C	PFA110 + PFB300S + PFA120	
Power Box Mount	Pole Mount	
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150	
Corner Mount	Parapet Mount	
PFA110 + PFB300S + PFA151	PFA110 + PFB303S	



# Dimensions (mm)



