

# 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, 25/30/50/60fps@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 1080P resolution at 50/60 fps, with 30x 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	Image Sensor 1/2.8" STARVIS™ CMOS		Streaming Capab	pility	3 Streams	
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)		
RAM/ROM 5		512M/128M		Frame Rate	Main stream	1080P/720P(1 ~ 50/60fps), 1.3M(1 ~ 25/30fps)
Scanning System		Progressive			Sub stream1	D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed 1/		1/1s~1/300,000s			Sub stream2	1080P/1.3M/720P/D1/ CIF (1 ~ 25/30fps)
Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0		0.0005Lux@F1.6	Bit Rate Control		CBR/VBR	
S/N Ratio More than 55dB		More than 55dB		Bit Rate		H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~
IR Distance N/		N/A				10240Kbps
IR On/Off Control		N/A		Day/Night		Auto(ICR) / Color / B/W
IR LEDs	1	N/A		Backlight Compe	ensation	BLC / HLC / WDR (120dB)
Lens				White Balance		Auto,ATW,Indoor,Outdoor,Manual
Focal Length	4	4.5mm~135mm		Gain Control		Auto / Manual
Max. Aperture	F	F1.6 ~ F4.4		Noise Reduction		Ultra DNR (2D/3D)
Angle of View H: 6		H: 67.8° ~ 2.4°		Motion Detetion		Support
Optical Zoom 30x		30x		Region of Interes		Support
Focus Control Au		Auto/Manual		Electronic Image Stabilization (EIS		Support
Close Focus Distance 10		100mm~ 1000mm		Defog		Support
DORI Distance		Digital Zoom		16x		
		eral proximity" of distance which makes it easy to		Flip		180°
sensor specification	and lab test resul	needs. The DORI distance is calculated based on sult according to EN 62676-4 which defines the nize and Identify respectively.		Privacy Masking		Up to 24 areas
Detect Observe		Recognize				
1862m(6109ft)	1862m(6109ft) 744m(2441ft)		186m(610ft)	Compression		G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
PTZ				Network		
Pan/Tilt Range	F	Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180°		Ethernet		RJ-45 (10/100Base-T)
Manual Control Speed		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, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed		Pan: 500° /s; Tilt: 500° /s		Interoperability		ONVIF, PSIA, CGI
Presets PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Metho	od	Unicast / Multicast
Speed Setup		Human-oriented focal Length/ speed adaptation		Max. User Acces	S	20 users
		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		Web Viewer		IE, Chrome, Firefox, Safari
Protocol		command in the specified period		Management So	ftware	Smart PSS, DSS
		DH-SD		Smart Phone		IOS, Android
Intelligence				Certifications		
		Support  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 2MP 30x Starlight PTZ DH-SD50230U-HNI Network Camera, WDR, PAL 2MP 30x Starlight PTZ Network DH-SD50230UN-HNI Camera, WDR, NTSC 2MP PTZ Camera 2MP 30x Starlight PTZ Network SD50230U-HNI Camera, WDR, PAL 2MP 30x Starlight PTZ Network SD50230UN-HNI Camera, WDR, NTSC PFB300S Wall Mount PFA110 Mount Adapter AC24V/1.5A Power Supply PFA140 Power box PFB300C Ceiling Mount Accessories 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 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)



