

DH-SD49225DB-HC

2MP 25x Starlight IR HDCVI PTZ Camera



System Overview

With its powerful optical zoom, and accurate pan and tilt capabilities, the HDCVI PTZ camera series provides an all-in-one solution for large-scale monitoring. It harnesses the latest starlight technology, allowing it to produce highly detailed images even in low light conditions. These cameras offer smooth control and high-grade protection that enable them to meet the requirements of video surveillance in small and medium-sized scenes.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

3DNR

Dahua's 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 300m for 2MP HD videos through coaxial cables, and up to 200m through UTP cables

 * The results were obtained and verified through rigorous testing in Dahua's test laboratory.

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- · Powerful 25× optical zoom.
- · Starlight technology.
- 120 dB true WDR, 3D NR.
- · Max. 25/30 fps@1080p, 25/30/50/60 fps@720p.
- IR distance up to 100 m.
- · IP66.











3 Signals over 1 Coaxial Cable

HDCVI technology supports 3 signals (video, audio* and data) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms.

* Audio input is available for select HDCVI camera models.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification			Idle Motion	Pattern;Preset;Scan;Tour
Camera			PTZ Protocol	DH-SD
Image Sensor	1/2.8" CMOS		Video	Pelco-P/D (Auto recognition)
Pixel	2 MP			1080p (1920 × 1080); 720p (1280 × 720); D1 (
Max. Resolution	1920 (H) × 1080 (V)		Resolution	576/704 × 480)
ROM	128 MB		Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)
RAM	256 MB		Day/Night	Yes
Electronic Shutter Speed	1/3 s-1/30,000 s		BLC	Yes
Scanning System	Progressive		WDR	120dB
Scanning System	0.005 lux@F1.6 (Color, 30 IR	RE);	HLC	Yes
Min. Illumination	0.0005 lux@F1.6 (B/W, 30 IF 0 lux (IR light)	**	White Balance	Auto; indoor; outdoor; tracking; manual; sod lamp; natural light; street lamp
Illumination Distance	100 m (328.08 ft) (IR)		Gain Control	Auto; manual
Illuminator On/Off Control	Zoom Prio; manual		Noise Reduction	2D NR; 3D NR
Illuminator Number	6 (IR)		Defog	Electronic
Lens			Digital Zoom	16×
Focal Length	4.8 mm-120 mm		Image Rotation	180°
Max. Aperture	F1.6-F3.5		Privacy Masking	Yes
,	H: 60.6°-3.2°;		S/N Ratio	≥50 dB
Field of View	V: 34.1°–1.8°; D: 69.4°–3.7°		Function	
Optical Zoom	25×		CVI Product Output Mode	TVI;CVI;CVBS;AHD(CVBS is only used for deb
Focus Control	Auto; semi-auto; manual		Certification	
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1
Iris Control	Auto; manual		Port	
	Detect Observe	Recognize Identify	Analog Output	1 channel (CVBS/CVI output, BNC)
	1655.2 m 653.8 m	331.0 m 165.5 m (1085.96 ft) (542.98 ft)	RS-485	1 (baud rate range: 1200 bps–9600 bps)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent		Audio Input	1 channel (LINE IN, bare wire)
DORI Distance			Alarm Input	2 (on-off value input: 0–5 VDC)
			Alarm Output	1
	function distances. For intel	lligent function distances,	Alarm Linkage	Scan; preset; tour; pattern; alarm digital outp
	project design tool.		Alarm Event	Alarm input
PTZ			Power	
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 1	80°	Power Supply	12 VDC, 3 A ± 10%
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s		Power Consumption	Basic: 10 W Max.: 22 W (PTZ + illuminator + heater)
Preset Speed	Pan: 240°/s; Tilt: 200°/s		Environment	
Preset	300		Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Tour	8 (up to 32 presets per tour))	Operating Humidity	≤95%
Pattern	5		Protection	IP66; TVS 6000V lightning proof; surge protection
Scan	5		Structure	
Power-off Memory	Yes		Product Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")

HDCVI Series | DH-SD49225DB-HC

Net Weight	3.0 kg (6.61 lb)
Gross Weight	4.2 kg (9.26 lb)

Ordering Information					
Туре	Model	Description			
2MP HDCVI Camera	DH-SD49225DB-HC	2MP 25x Starlight IR PTZ HDCVI Camera, PAL			
	DH-SD49225DBN-HC	2MP 25x Starlight IR PTZ HDCVI Camera, NTSC			
	SD49225DB-HC	2MP 25x Starlight IR PTZ HDCVI Camera, PAL			
	SD49225DBN-HC	2MP 25x Starlight IR PTZ HDCVI Camera, NTSC			
Accessories	PFB305W	Wall Mount Bracket			
	PFA120	Junction Box			
	PFA111	Mount Adapter			
	PFB300C	Ceiling Mount Bracket			
	PFB301C	Ceiling Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	PFB303S	Parapet Mount Bracket			
	DC12V/3A	Power Supply			

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



PFA120 Junction Box



PFB301C Ceiling Mount Bracket



PFB301S-E Plane Mount Bracket

Rev 002.000



PFA111 Mount Adapter



PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



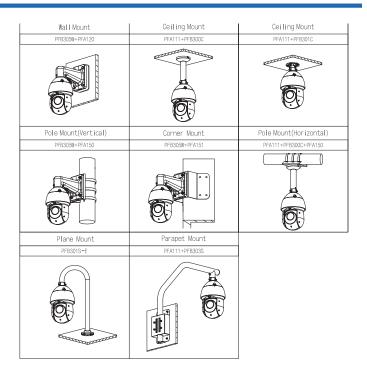
PFB300C Ceiling Mount Bracket



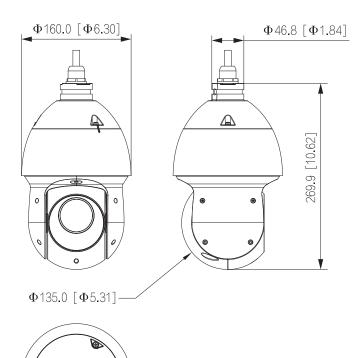
PFA151 Corner Mount Bracket



DC12V/3A Power Supply



Dimensions (mm [inch])



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