

DH-SD49218DB-HC

2MP 18x 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.

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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS.
- · Powerful 18x 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.











Protection (IP66, TVS 6000 V)

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

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.

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.

Video Frame Rate

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Technical Specification	1	Day/Night	Yes	
Camera		BLC	Yes	
Image Sensor	1/2.8" CMOS	WDR	120 dB	
Pixel	2 MP	HLC	Yes	
Max. Resolution	1920 (H) × 1080 (V)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
ROM	128 MB	Gain Control	Auto; manual	
RAM	256 MB	Noise Reduction	2D NR; 3D NR	
Electronic Shutter Speed	1/3 s-1/30,000 s	Defog	Electronic	
Scanning System	Progressive	Digital Zoom	16x	
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (illuminator)	Image Rotation	180°	
Illumination Distance	100 m (328.08 ft) (IR)	Privacy Masking	Yes	
Illuminator On/Off Control	Zoom Prio; manual	S/N Ratio	≥ 50 dB	
Illuminator Number	6 (IR)	Function	-unction	
	O (III)	CVI Product Output Mode	TVI; CVI; CVBS; AHD (CVBS is only used for debugging)	
Lens	5 mm-90 mm	Certification	Certification	
Focal Length Max. Aperture	F1.6-F2.9	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014	
Field of View	H: 60.6°-3.8°; V: 34.1°-2.1°; D: 69.4°-4.4°	Port	UL: UL60950-1+CAN/CSA C22.2, No.60950-1	
Optical Zoom	18x		1 channel (CVBS/CVI output, BNC)	
Focus Control	Auto; semi-auto; manual	Analog Output RS-485	1 (baud rate range: 1200 bps–9600 bps)	
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)		1 channel (LINE IN, bare wire)	
Iris Control	Auto; manual	Audio Input		
	Detect Observe Recognize Identify	Alarm Input	2 (on-off value input: 0–5 VDC)	
DORI Distance	1241.4 m 490.3 m 248.3 m 124.1 m (4072.77 ft) (1608.74 ft) (814.55 ft) (407.28 ft)	Alarm Output		
PTZ	(1072.7714) (12008.7714) (017.85114) (107.2014)	Alarm Linkage	Scan; preset; tour; pattern; alarm digital output	
	Pan: 0° to 360° endless;	Alarm Event	Alarm input	
Pan/Tilt Range	Tilt: -15° to +90°, auto flip 180°	Power		
Manual Control Speed	Pan: 0.1°–200°/s; Tilt: 0.1°–120°/s	Power Supply	12 VDC, 3 A ± 10%	
Preset Speed	Pan: 0.1°–240°/s; Tilt: 0.1°–200°/s	Power Consumption	Basic: 10 W Max: 22 W (PTZ + illuminator + heater)	
Preset	300	Environment		
Tour	8 (up to 32 presets per tour)	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Pattern	5	Operating Humidity	≤ 95%	
Scan	5	Protection	TVS 6000 V lightning proof; IP66; surge protection; voltage transient protection	
Power-off Memory	Yes	Structure		
Idle Motion	Pattern; Preset; Scan; Tour	Product Dimensions	269.9 mm × Φ160.0 mm (10.62" × Φ6.30")	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Net Weight	3.0 kg (6.61 lb)	
Video		Gross Weight	4.2 kg (9.26 lb)	
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)			
Video Frame Pate	1080n (25/30 fps): 720n (25/30/50/60 fps)			

1080p (25/30 fps); 720p (25/30/50/60 fps)

Ordering Information				
Туре	Model	Description		
2MP HDCVI Camera	DH-SD49218DB-HC	2MP 18x Starlight IR PTZ HDCVI Camera, PAL		
	DH-SD49218DBN-HC	2MP 18x Starlight IR PTZ HDCVI Camera, NTSC		
	SD49218DB-HC	2MP 18x Starlight IR PTZ HDCVI Camera, PAL		
	SD49218DBN-HC	2MP 18x Starlight IR PTZ HDCVI Camera, NTSC		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	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		

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm[inch])

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA120 Junction Box



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



PFB301C Ceiling Mount Bracket



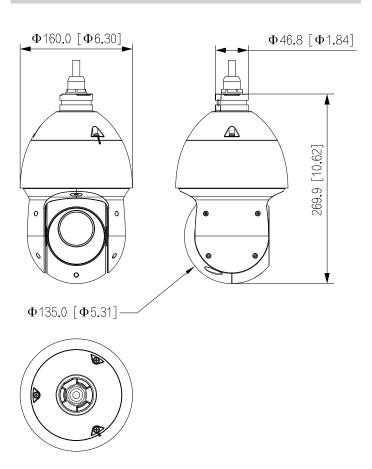
PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



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