

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 largescale 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.

HDCVI Series | DH-SD49225DB-HC

Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	256 MB			
Electronic Shutter Speed	1/3 s-1/30,0	000 s		
Scanning System	Progressive			
Min. Illumination		1.6 (Color, 30 F1.6 (B/W, 30 t)		
Illumination Distance	100 m (328.0	08 ft) (IR)		
Illuminator On/Off Control	Zoom Prio; manual			
Illuminator Number	6 (IR)	6 (IR)		
Lens				
Focal Length	4.8 mm-120 mm			
Max. Aperture	F1.6-F3.5			
Field of View	H: 60.6°–3.2°; V: 34.1°–1.8°; D: 69.4°–3.7°			
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1655.2 m (5430.45 ft)	653.8 m (2145.01 ft)	331.0 m (1085.96 ft)	165.5 m (542.98 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s
Preset Speed	Pan: 240°/s; Tilt: 200°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Pattern;Preset;Scan;Tour
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)

Video	
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)
Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)
Day/Night	Yes
BLC	Yes
WDR	120dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Defog	Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Yes
S/N Ratio	≥50 dB
Function	
CVI Product Output Mode	TVI;CVI;CVBS;AHD(CVBS is only used for debugging)
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1
Port	
Analog Output	1 channel (CVBS/CVI output, BNC)
RS-485	1 (baud rate range: 1200 bps-9600 bps)
Audio Input	1 channel (LINE IN, bare wire)
Alarm Linkage	Scan; preset; tour; pattern; alarm digital output
Alarm Event	Alarm input
Power	
Power Supply	12 VDC, 3 A ± 10%
Power Consumption	Basic: 10 W Max.: 22 W (PTZ + illuminator + heater)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Protection	IP66; TVS 6000V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")
Net Weight	3.0 kg (6.61 lb)
Gross Weight	4.2 kg (9.26 lb)

HDCVI Series | DH-SD49225DB-HC

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, P.				
	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				



Dimensions (mm [inch])





Wall Mount Bracket		
Optional:		



PFB305W

Accessories

Included:

PFA120 Junction Box



PFB301C Ceiling Mount Bracket



Plane Mount Bracket

Rev 002.000



PFA111 Mount Adapter



PFA150 Pole Mount Bracket

PFB303S Parapet Mount Bracket

S ount

Corner Mount Bracket

PFA151

PFB300C

Ceiling Mount

Bracket



DC12V/3A Power Supply

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