

DH-SD59225DB-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 150 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 Pelco-P/D (Auto recognition)
Image Sensor	1/2.8" CMOS	Video
Pixel	2 MP	1080n (1920 x 1080): 720n (1280 x 720): D1 (7
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
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (IR light)	HLC Yes Auto; indoor; outdoor; tracking; manual; sodiulamp; natural light; street lamp
Illumination Distance	150 m (492.13 ft) (IR)	Gain Control Auto; manual
Illuminator On/Off Control	Zoom Prio; manual	Noise Reduction 2D NR; 3D NR
Illuminator Number	4 (IR)	Defog Electronic
Lens		Digital Zoom 16×
Focal Length	4.8 mm-120 mm	Image Rotation 180°
		Privacy Masking Yes
Max. Aperture	F1.6-F3.5 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 debu
Focus Control	Auto; semi-auto; manual	Certification
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)	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 (5430.45 ft) (2145.01 ft) (1085.96 ft) (542.98 ft)	RS-485 1 (baud rate range: 1200 bps–9600 bps)
	*DORI (Detect, Observe, Recognize, Identify) is	Audio Input 1 channel (LINE IN, bare wire)
DORI Distance	a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish	Alarm Input 2 (on-off value input: 0–5 VDC)
	persons or objects within a covered area. The numbers in this table do not reflect intelligent	Alarm Output 1
	function distances. For intelligent function distances, refer to installation and commissioning manual/	Alarm Linkage Scan; preset; tour; pattern; alarm digital outpose
	project design tool.	Alarm Event Alarm input
PTZ	D 081 200 H	Power
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°	Power Supply 24 VDC, 2.5 A ± 25%
Manual Control Speed	Pan: 0.1°–300°/s Tilt: 0.1°–200°/s	Power Consumption Basic: 10 W Max.: 21 W (PTZ + illuminator)
Preset Speed	Pan: 400°/s; Tilt: 300°/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 voltage transient protection
	5	Structure
Scan		Product Dimensions 310.0 mm × Φ185.7 mm (12.20" × Φ7.31")
Power-off Memory	Yes	

HDCVI Series | DH-SD59225DB-HC

Net Weight	3.9 kg (8.60 lb)
Gross Weight	7.2 kg (15.87 lb)

Ordering Information				
Туре	Model	Description		
2MP HDCVI Camera	DH-SD59225DB-HC	2MP 25x Starlight IR PTZ HDCVI Camera, PAL		
	DH-SD59225DBN-HC	2MP 25x Starlight IR PTZ HDCVI Camera, NTSC		
	SD59225DB-HC	2MP 25x Starlight IR PTZ HDCVI Camera, PAL		
	SD59225DBN-HC	2MP 25x Starlight IR PTZ HDCVI Camera, NTSC		
Accessories	DC24V/2.5A	Power Adapter		
	PFA110	Mount Adapter		
	PFB300S	Wall Mount Bracket		
	PFA120	Junction Box		
	PFB300C	Ceiling Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		

Wall Mount	Ceiling Mount 1	Ceiling Mount 2
PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA110+PFB301C
Pole Mount (Vertical)	Pole Mount (Horizontal)	Corner Mount
PFA110+PFB300S+PFA150	PFA110+PFB300C+PFA150	PFA110+PFB300S+PFA151
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Accessories

Included:



DC24V/2.5A Power Adapter



PFA110 Mount Adapter



PFB300S Wall Mount Bracket

Optional:



PFA120 Junction Box



PFA150



Pole Mount Bracket



PFB301S-E Bracket



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket

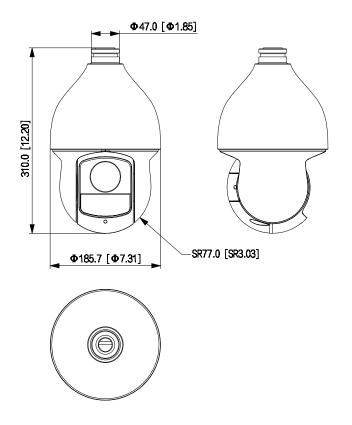


PFB301C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket

Dimensions (mm [inch])



Plane Mount

Rev 002.000

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