

DH-SD59232DB-HC

2MP 32x Starlight IR HDCVI PTZ Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS.
- Powerful 32x 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.



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.

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

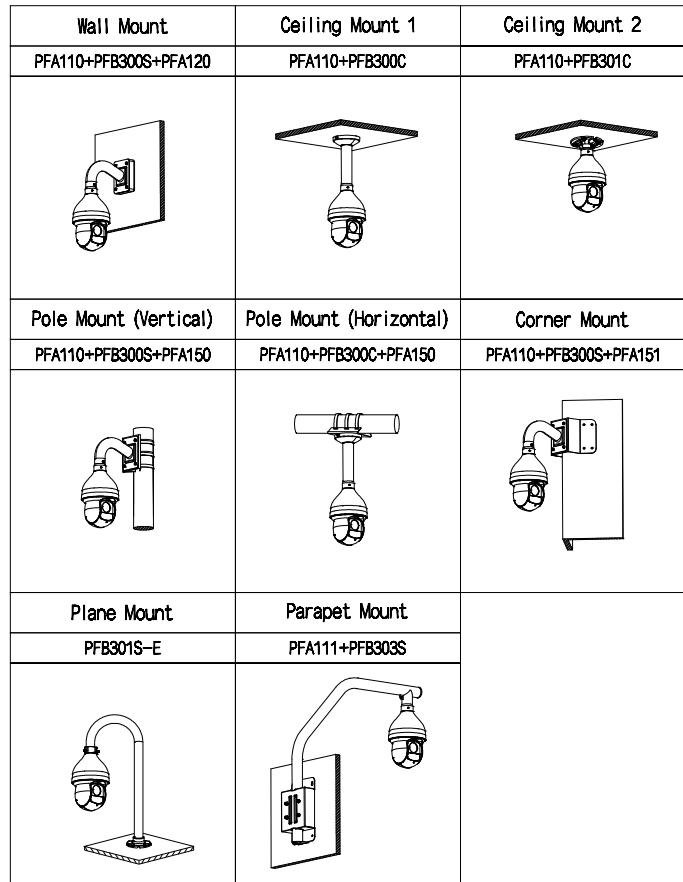
HDCVI technology supports 3 signals (video, audio* and data) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms.

* Audio input is available for select HDCVI camera models.

Technical Specification					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	150 m (492.13 ft) (IR)				Privacy Masking	Yes
Illuminator On/Off Control	Zoom Prio; manual				S/N Ratio	≥ 50 dB
Illuminator Number	4 (IR)				Function	
Lens					CVI Product Output Mode	TVI; CVI; CVBS; AHD (CVBS is only used for debugging)
Focal Length	4.5 mm–144 mm				Certification	
Max. Aperture	F1.6–F4.0				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1
Field of View	H: 59.6°–2.8°; V: 34.1°–1.6°; D: 67.9°–3.3°				Port	
Optical Zoom	32x				Analog Output	1 channel (CVBS/CVI output, BNC)
Focus Control	Auto; semi-auto; manual				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)				Audio Input	1 channel (LINE IN, bare wire)
Iris Control	Auto; manual				Alarm Input	2 (on-off value input: 0–5 VDC)
DORI Distance	Detect 1986.2 m (6516.43 ft)	Observe 784.6 m (2573.99 ft)	Recognize 397.2 m (1303.29 ft)	Identify 198.6 m (651.64 ft)	Alarm Output	1
PTZ					Alarm Linkage	Scan; preset; tour; pattern; alarm digital output
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°				Alarm Event	Alarm input
Manual Control Speed	Pan: 0.1°–300°/s; Tilt: 0.1°–200°/s				Power	
Preset Speed	Pan: 0.1°–400°/s; Tilt: 0.1°–300°/s				Power Supply	24 VDC, 2.5 A ± 25%
Preset	300				Power Consumption	Basic: 10 W Max: 21 W (PTZ + illuminator)
Tour	8 (up to 32 presets per tour)				Environment	
Pattern	5				Operating Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Scan	5				Operating Humidity	≤ 95%
Power-off Memory	Yes				Protection	TVS 6000 V lightning proof; IP66; surge protection; voltage transient protection
Idle Motion	Pattern; Preset; Scan; Tour				Structure	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)				Product Dimensions	310.0 mm × Ø185.7 mm (12.20" × Ø7.31")
Video					Net Weight	3.9 kg (8.60 lb)
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)				Gross Weight	7.2 kg (15.87 lb)
Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)					

Ordering Information

Type	Model	Description
2MP HDCVI Camera	DH-SD59232DB-HC	2MP 32x Starlight IR PTZ HDCVI Camera, PAL
	DH-SD59232DBN-HC	2MP 32x Starlight IR PTZ HDCVI Camera, NTSC
	SD59232DB-HC	2MP 32x Starlight IR PTZ HDCVI Camera, PAL
	SD59232DBN-HC	2MP 32x 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
	PFA111	Mount Adapter
	PFB303S	Parapet Mount Bracket
	PFB301S-E	Plane Mount Bracket



Accessories

Included:



Optional:



Dimensions (mm[inch])

