

# 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		Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)
Camera		Day/Night	Yes
Image Sensor	1/2.8" CMOS	BLC	Yes
Pixel	2 MP	WDR	120dB
Max. Resolution	1920 (H) × 1080 (V)	HLC	Yes
ROM	128 MB	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
RAM	256 MB	Gain Control	Auto; manual
Electronic Shutter Speed	1/3 s-1/30,000 s	Noise Reduction	2D NR; 3D NR
Scanning System	Progressive	Defog	Electronic
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (IR light)	Digital Zoom	16×
Illumination Distance	150 m (492.13 ft) (IR)	Image Rotation	180°
Illuminator On/Off Control	Zoom Prio; manual	Privacy Masking	Yes
Illuminator Number	4 (IR)	S/N Ratio	≥50 dB
Lens		Function	
Focal Length	4.8 mm-120 mm	CVI Product Output Mode	TVI;CVI;CVBS;AHD(CVBS is only used for debugging)
Max. Aperture	F1.6–F3.5	Certification	
Field of View	H: 60.6°-3.2°; V: 34.1°-1.8°; D: 69.4°-3.7°	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1
Optical Zoom	25×	Port	
Focus Control	Auto; semi-auto; manual	Analog Output	1 channel (CVBS/CVI output, BNC)
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)	RS-485	1 (baud rate range: 1200 bps–9600 bps)
Iris Control	Auto; manual	Audio Input	1 channel (LINE IN, bare wire)
	Detect Observe Recognize Identify	Alarm Input	2 (on-off value input: 0–5 VDC)
DORI Distance	1655.2 m 653.8 m 331.0 m 165.5 m (5430.45 ft) (2145.01 ft) (1085.96 ft) (542.98 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	Power	
Wallaar Control Speed	Tilt: 0.1°–200°/s Pan: 400°/s;	Power Supply	24 VDC, 2.5 A ± 25%
Preset Speed	Tilt: 300°/s	Power Consumption	Basic: 10 W Max.: 21 W (PTZ + illuminator)
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	IP66; TVS 6000V lightning proof; surge protection; voltage transient protection
Power-off Memory	Yes	Structure	Totale di disserte protection
Idle Motion	Pattern;Preset;Scan;Tour	Product Dimensions	310.0 mm × Φ185.7 mm (12.20" × Φ7.31")
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Net Weight	3.9 kg (8.60 lb)
Video		Gross Weight	7.2 kg (15.87 lb)
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)	5.555 Teight	

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



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket

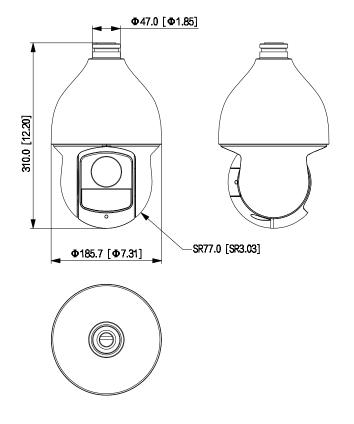


PFB301C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket

## Dimensions (mm [inch])





PFB301S-E Plane Mount Bracket

Rev 002.000