

## DH-SD50225DB-HC 2MP 25x Starlight 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.
- IK10.
- IP67.



#### 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 (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

## HDCVI Series | DH-SD50225DB-HC

### **Technical Specification**

Camera	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-1/30,000 s				
Scanning System	Progressive				
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE)				
Lens					
Focal Length	4.8 mm–120 mm				
Max. Aperture	F1.6-F3.5 H: 59.7°-3.5°; V: 34.1°-2.0°; D: 68.6°-4.0°				
Field of View					
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				
	Detect	Observe	Recognize	Identify	
DORI Distance	1655.2 m (5430.45 ft)	653.8 m (2145.01 ft)	331.0 m (1085.96 ft)	165.5 m (542.98 ft)	
DT7					

Ρ	ΓZ

Pan: 0° to 360° endless; Tilt: 0° to +90°, auto flip 180°	
Pan: 0.1°–350°/s Tilt: 0.1°–250°/s	
Pan: 500°/s; Tilt: 500°/s	
300	
8 (up to 32 presets per tour)	
5	
5	
Yes	
Pattern;Preset;Scan;Tour	
DH-SD Pelco-P/D (Auto recognition)	
1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)	
1080p (25/30 fps); 720p (25/30/50/60 fps)	
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	24 VDC, 2.5 A ± 25%
Power Consumption	Basic: 10.5 W Max.: 14 W (PTZ )
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP67; IK10; TVS 6000V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	253.0 mm × Φ186.2 mm (9.96" × Φ7.33")
Net Weight	2.5 kg (5.51 lb)
Gross Weight	4.4 kg (9.70 lb)

### HDCVI Series | DH-SD50225DB-HC

Ordering Information					
Туре	Model	Description			
	DH-SD50225DB-HC	2MP 25x Starlight PTZ HDCVI Camera, PAL			
2MP HDCVI	DH-SD50225DBN-HC	2MP 25x Starlight PTZ HDCVI Camera, NTSC			
Camera	SD50225DB-HC	2MP 25x Starlight PTZ HDCVI Camera, PAL			
	SD50225DBN-HC	2MP 25x Starlight PTZ HDCVI Camera, NTSC			
	DC24V/2.5A	Power Adapter			
	PFA110	Mount Adapter			
	PFB300S	Wall Mount Bracket			
	PFA120	Junction Box			
Accessories	PFB300C	Ceiling Mount Bracket			
Accessories	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	Ceiling Mount	
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		
PFB301SE	PFA110+PFB303S		

# Accessories

Included:



DC24V/2.5A Power Adapter

Optional:



PFA120 Junction Box



PFA150 Pole Mount Bracket



PFB301S-E Plane Mount Bracket

PFA110 Mount Adapter

PFB300C

Ceiling Mount

Bracket

PFA151

Corner Mount

Bracket



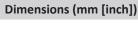
PFB300S Wall Mount Bracket

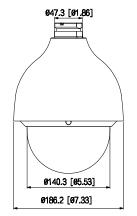


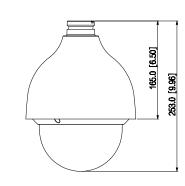
PFB301C Ceiling Mount Bracket

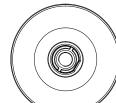


PFB303S Parapet Mount Bracket









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