

DH-SD52C225DB-HC

2MP 25x Starlight HDCVI PTZ Camera



- 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.











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

 * 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.

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.

Technical Specification Day/Night Yes			
Camera		BLC	Yes
Image Sensor	1/2.8" CMOS	WDR	120dB
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	16×
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE)	Image Rotation	180°
Lens		Privacy Masking	Yes
Focal Length	4.8 mm-120 mm	S/N Ratio	≥50 dB
Max. Aperture	F1.6-F3.5	Function	
Field of View	H: 59.7°-3.5°; V: 34.1°-2.0°; D: 68.6°-4.0°	CVI Product Output Mode	TVI;CVI;CVBS;AHD(CVBS is only used for debugging)
Optical Zoom	25×	Certification	
Focus Control	Auto; semi-auto; manual	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)		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)
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)	RS-485	1 (baud rate range: 1200 bps–9600 bps)
PTZ		Audio Input	1 channel (LINE IN, bare wire)
Pan/Tilt Range	Pan: 0° to 360° endless;	Alarm Input	2 (on-off value input: 0–5 VDC)
	Tilt: 0° to +90°, auto flip 180° Pan: 0.1°–350°/s	Alarm Output	1
Manual Control Speed	Tilt: 0.1°–250°/s	Alarm Linkage	Scan; preset; tour; pattern; alarm digital output
Preset Speed	Pan: 500°/s; Tilt: 500°/s	Alarm Event	Alarm input
Preset	300	Power	
Tour	8 (up to 32 presets per tour)	Power Supply	24 VDC,2.5 A ± 25%
Pattern	5	Power Consumption	Basic: 10.5 W Max.: 14 W (PTZ)
Scan	5	Environment	
Power-off Memory	Yes	Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Idle Motion	Pattern; Preset; Scan; Tour	Operating Humidity	≤95%
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Protection	IK10; TVS 6000V lightning proof; surge protection; voltage transient protection
Video		Structure	
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)	Product Dimensions	176.6 mm × Φ198.0 mm (6.95" × Φ7.80")
Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)	Net Weight	2.2 kg (4.85 lb)
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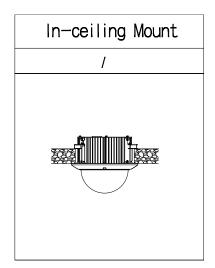
HDCVI Series | DH-SD52C225DB-HC

Ordering Information			
Туре	Model	Description	
2MP HDCVI Camera	DH-SD52C225DB-HC	2MP 25x Starlight PTZ HDCVI Camera, PAL	
	DH-SD52C225DBN-HC	2MP 25x Starlight PTZ HDCVI Camera, NTSC	
	SD52C225DB-HC	2MP 25x Starlight PTZ HDCVI Camera, PAL	
	SD52C225DBN-HC	2MP 25x Starlight PTZ HDCVI Camera, NTSC	
Accessories	DC24V/2.5A	Power Adapter	

Accessories

Included:





Dimensions (mm [inch])

