

DH-SD52C225DB-HC 2MP 25x Starlight HDCVI PTZ Camera



Starlight technology.

• 1/2.8" 2Megapixel STARVIS™ CMOS.

• 120 dB true WDR, 3D NR.

• Powerful 25× optical zoom.

- Max. 25/30 fps@1080p, 25/30/50/60 fps@720p.
- IK10.



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.

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.

HDCVI Series | DH-SD52C225DB-HC

Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	256 MB	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			
Field of View	V: 34.1°-2.0°	H: 59.7°-3.5°; V: 34.1°-2.0°; D: 68.6°-4.0°		
Optical Zoom	25×	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			
DORI Distance	Detect	Observe	Recognize	Identify
	1655.2 m (5430.45 ft)	653.8 m (2145.01 ft)	331.0 m (1085.96 ft)	165.5 m (542.98 ft)
PTZ				
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: 0° to +90°, auto flip 180°			

Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180°	
Manual Control Speed	Pan: 0.1°–350°/s Tilt: 0.1°–250°/s	
Preset Speed	Pan: 500°/s; Tilt: 500°/s	
Preset	300	
Tour	8 (up to 32 presets per tour)	
Pattern	5	
Scan	5	
Power-off Memory	Yes	
Idle Motion	Pattern; Preset; Scan; Tour	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	
Video		
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)	
Video Frame Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)	

Day/Night	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	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Humidity	≤95%
Protection	IK10; TVS 6000V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	176.6 mm × Φ198.0 mm (6.95" × Φ7.80")
Net Weight	2.2 kg (4.85 lb)
Gross Weight	3.7 kg (8.16 lb)

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	BN-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

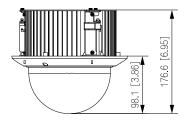
Included:

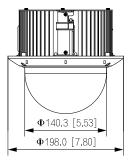


DC24V/2.5A Power Adapter

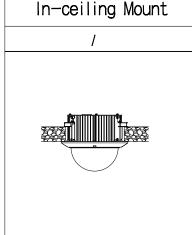
In-ceiling Mount
1

Dimensions (mm [inch])









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