

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 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.

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.



HDCVI Series | DH-SD52C225DB-HC

Technical Specification					
Camera					
Image Sensor	1/2.8" CMO	1/2.8" CMOS			
Pixel	2 MP	2 MP			
Max. Resolution	1920 (H) × 1	1920 (H) × 1080 (V)			
ROM	128 MB	128 MB			
RAM	256 MB	256 MB			
Electronic Shutter Speed	1/3 s-1/30,0	1/3 s-1/30,000 s			
Scanning System	Progressive	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	4.8 mm-120 mm			
Max. Aperture	F1.6-F3.5	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-a	Auto; semi-auto; manual			
Close Focus Distance	0.1 m-2 m (0	0.1 m-2 m (0.33 ft-6.56 ft)			
Iris Control	Auto; manua	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°			
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 p	8 (up to 32 presets per tour)			
Pattern	5				
Scan	5	5			
Power-off Memory	Yes	Yes			
Idle Motion	Pattern; Pre	Pattern; Preset; Scan; Tour			
PTZ Protocol	DH-SD Pelco-P/D (A	DH-SD Pelco-P/D (Auto recognition)			
Video					
Resolution		1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)			
Video Frame Rate	1080p (25/3	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)	
Audio Input Alarm Input	1 channel (LINE IN, bare wire) 2 (on-off value input: 0–5 VDC)	
Alarm Input	2 (on-off value input: 0–5 VDC)	
Alarm Input Alarm Output	2 (on-off value input: 0–5 VDC)	
Alarm Input Alarm Output Alarm Linkage	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output	
Alarm Input Alarm Output Alarm Linkage Alarm Event	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC,2.5 A ± 25% Basic: 10.5 W	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply Power Consumption	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC,2.5 A ± 25% Basic: 10.5 W	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply Power Consumption Environment	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC,2.5 A ± 25% Basic: 10.5 W Max.: 14 W (PTZ)	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply Power Consumption Environment Operating Temperature	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC,2.5 A ± 25% Basic: 10.5 W Max.: 14 W (PTZ) -30 °C to +60 °C (-22 °F to +140 °F)	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply Power Consumption Environment Operating Temperature Operating Humidity	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC, 2.5 A ± 25% Basic: 10.5 W Max.: 14 W (PTZ) -30 °C to +60 °C (-22 °F to +140 °F) ≤95% IK10; TVS 6000V lightning proof; surge protection;	
Alarm Input Alarm Output Alarm Linkage Alarm Event Power Power Supply Power Consumption Environment Operating Temperature Operating Humidity Protection	2 (on-off value input: 0–5 VDC) 1 Scan; preset; tour; pattern; alarm digital output Alarm input 24 VDC, 2.5 A ± 25% Basic: 10.5 W Max.: 14 W (PTZ) -30 °C to +60 °C (-22 °F to +140 °F) ≤95% IK10; TVS 6000V lightning proof; surge protection;	

3.7 kg (8.16 lb)



Gross Weight

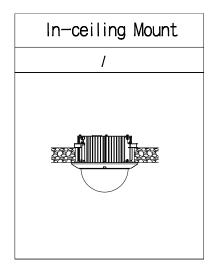
HDCVI Series | DH-SD52C225DB-HC

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])

