Dahua TECHNOLOGY

DH-SD50225-HC-LA

2MP 25x Starlight PTZ HDCVI Camera

· 1/2.8" 2Megapixel STARVIS™ CMOS
· Powerful 25x optical zoom
· Starlight technology
· 120dB true WDR, 3D DNR
· Max. 25/30 fps@1080P, 25/30/50/60 fps@720P
· IP67
· IK10

Starlight	Day/Night	IP67	IK10	0.005Lux

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD50 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 25x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD50 series PTZ is equipped with quick and smooth control, high quality image and good protection, which makes it meet most of the requirements of video surveillance applications.

Functions

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

The camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

ONVIF

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Pixel	2MP
Max. Resolution	1920 (H) x 1080 (V)
ROM	16 MB
RAM	256 MB
Electronic Shutter Speed	1/3 s–1/100000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6

Lens

Focal Length	4.8 mm–120 mm
Max. Aperture	F1.6–F3.5
Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°
Optical Zoom	25x
Focus Control	Auto/Semi-Auto/Manual
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)
Iris Control	Auto/Manual

DORI Distance	Detect	Observe	Recognize	Identify
	1655 m (5429.79 ft)	654 m (2145.67 ft)	331 m (1085.96 ft)	165 m (541.34 ft)

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: 0° ~ 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
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Speed Adjustment	Support
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)

Video

Resolution	1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480)
Frame Rate	1080P (25/30 fps); 720P (25/30/50/60 fps)
CVI Product Output Mode	CVI; TVI; AHD; CVBS
Day/Night	Support

BLC	Support
WDR	120 dB
HLC	Support
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural/Street lamp
Gain Control	Auto/Manual
Noise Reduction	2D/3D
Defog	Electronic
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas

Audio

Compression	G.711a; G.711Mu

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014 UL62368-1+CAN/CSA C22.2,No. 62368-1

Port

Analog Output	1 (CVBS/CVI output, BNC port)
RS-485	1 (baud rate range: 1200 bps–9600 bps)
Audio Input	1 (LINE IN; bare wire)
Alarm I/O	2/1

Power

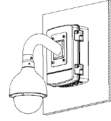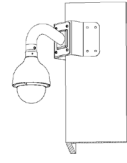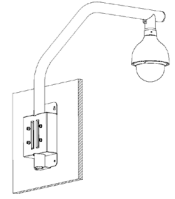|	
Power Supply	DC 24V/2.5A ± 25%
Power Consumption	Basic: 15.5W Max: 18.5W (fan enabled, PTZ rotating)
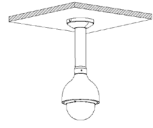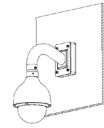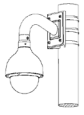
Environment

Operating Temperature	-40°C ~ 60°C (-40°F ~ +140°F)
Operating Humidity	≤ 95%RH
Protection	IP67; IK10; TVS 6000V lightning protection; surge protection

Structure

Dimensions	253.0 mm × Φ186.2 mm (9.96" × Φ7.33")
Net Weight	2.5 kg (5.51 lb)

Ordering Information

Type	Model	Description
2MP PTZ Camera	DH-SD50225HC-LA	2MP 25x Starlight PTZ HDCVI Camera, WDR, PAL
	DH-SD50225N-HC-LA	2MP 25x Starlight PTZ HDCVI Camera, WDR, NTSC
	SD50225-HC-LA	2MP 25x Starlight PTZ HDCVI Camera, WDR, PAL
	SD50225N-HC-LA	2MP 25x Starlight PTZ HDCVI Camera, WDR, NTSC
Accessories	PFB300S	Wall Mount Bracket
	PFA110	Mount Adapter
	DC24V/2.5A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount Bracket
	PFA120	Junction Box
	PFA150	Pole Mount Bracket
	PFA151	Corner Mount Bracket
	PFB303S	Parapet Mount Bracket

Ceiling Mount	Junction Mount	Pole Mount
PFA110+PFB300C	PFA110+PFB300S+PFA120	PFA110+PFB300S+PFA150

Power Box Mount	Corner Mount	Parapet Mount
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA151	PFA110+PFB303S

Accessories

Included:

PFB300S
Wall Mount Bracket

PFA110
Mount Adapter

DC24V/2.5A
Power Adapter

Optional:

PFA140
Power Box

PFB300C
Ceiling Mount Bracket

PFA120
Junction Box

PFA150
Pole Mount Bracket

PFA151
Corner Mount Bracket

PFB303S
Parapet Mount Bracket

Dimensions (mm[inch])

Φ46.4 [Φ1.83]

253.0 [9.96]

228.0 [8.98]

Φ185.9 [Φ7.32]

SΦ140.0 [SΦ5.51]