DAHUA TECHNOLOGY

VKD TS 2040

2MP 4x Starlight HDCVI PTZ Camera

- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 4x optical zoom
- Starlight technology
- 120 dB true WDR, 3D DNR
- Max. 25/30 fps@1080P, 25/30/50/60 fps@720P
- IP66, IK10

IP66	0.005Lux	Starlight	WDR	Day/Night	2Mp

System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD22 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 4x optical zoom, and has very excellent low light performance due to the latest starlight technology. SD22 series PTZ camera is equipped with smooth control, high quality image and good protection, which makes it meet small and medium-sized video surveillance applications.

Functions

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself an ideal 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 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.

Environmental

The camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 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.

HDCVI Series

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: 0.05 Lux@F1.6 B/W: 0.005 Lux@F1.6

Lens

Focal Length	2.7 mm–11 mm			
Max. Aperture	F1.6–F2.7			
Field of View	H: 112.5°–30°; V: 54.2°–19.9°; D: 122.3°–40.6°			
Optical Zoom	4x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.5 m–1 m (1.64 ft–3.28 ft)			
Iris Control	Fixed			
	Detect	Observe	Recognize	Identify
DORI Distance	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)

PTZ

Pan/Tilt Range	Pan: 0°–355° Tilt: 0°–90°
Manual Control Speed	Pan: 0.1°–100°/s Tilt: 0.1°–60°/s
Preset Speed	Pan: 100°/s; Tilt: 60°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Speed Adjustment	Support
Power-off Memory	Support
Idle Motion	Preset/Tour
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°

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1

Port

Analog Output	1 (CVBS/CVI output, BNC port)
RS485	1 (baud rate range: 1200 bps–9600 bps)

Power

Power Supply	12V DC/1.5A±10%
Power Consumption	5W 6W (PTZ on)

Environment

Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤ 95%RH
Protection	IP66; IK10; TVS 4000V lightning proof; surge protection; voltage transient protection

Structure

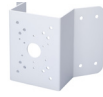|	
Casing	Metal
Dimensions	Φ122 mm × 89 mm (4.80" × 3.50")
Net Weight	0.6 kg (1.32 lb)
Gross Weight	0.65 kg (1.43 lb)

Accessories

Optional:

DC12V/1.5A
Power Adapter

SFS06AF
Mount Adapter

SFS00AC
Corner Mount Bracket

SFS00AJ
Junction Box
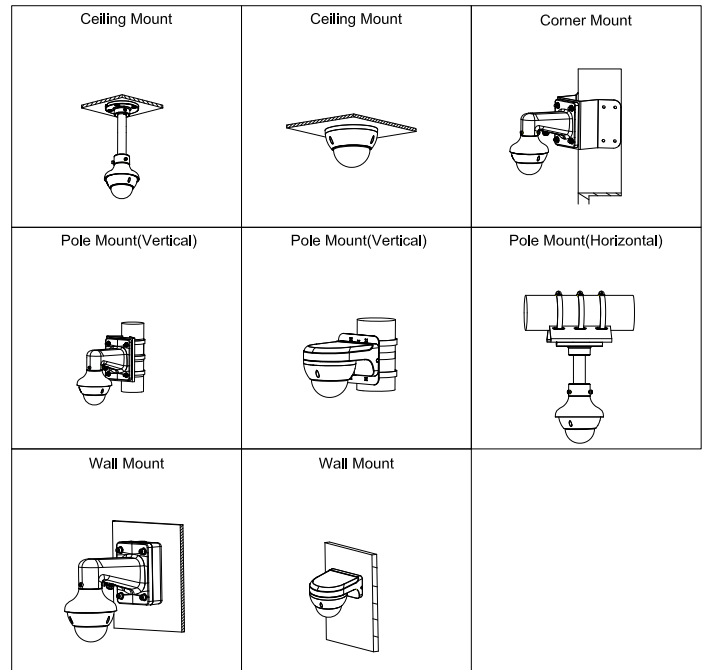
SFS02W
Wall Mount Bracket

SFD03W
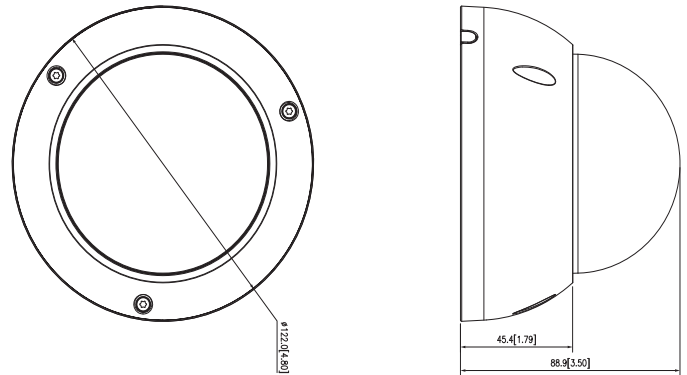Wall Mount Bracket

SFS00C
Ceiling Mount Bracket

SFS00AP
Pole Mount Bracket

SFU00AP2
Pole Mount Bracket

Ceiling Mount	Ceiling Mount	Corner Mount
Pole Mount(Vertical)	Pole Mount(Vertical)	Pole Mount(Horizontal)
Wall Mount	Wall Mount	

Dimensions (mm[inch])

ø122.0[4.80]

45.4[1.79]

88.9[3.50]

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