

DH-SD49116I-HC 1MP 16x Starlight IR PTZ HDCVI Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 16x optical zoom
- Starlight technology
- · 120dB true WDR, 3D DNR
- · Max. 25/30/50/60fps@720P
- · IR distance up to 100m
- · IP66



System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD49 series PTZ camera can provide large monitoring range and great detail. The camera delivers 720P resolution at 50/60fps, with 16x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD49 series PTZ is equipped with smooth control, high quality image and good protection, which make it can meet small and medium size 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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), 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.

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.

Lite Series | DH-SD49116I-HC

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS			
Effective Pixels	1280(H) x 720(V), 1 Megapixels			
Scanning System	Progressive			
Electronic Shutter Speed	PAL: 1/3s~1/30,000s NTSC: 1/4s~1/30,000s			
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			
S/N Ratio	More than 55dB			
IR Distance	Distance up to 100m (328ft)			
IR On/Off Control	Auto/Manual			
IR LEDs	6			
Lens				
Focal Length	5.3mm~84.8mm			
Max. Aperture	F1.6 ~ F3.0			
Angle of View	H: 57.2°~3.75°			
Optical Zoom	16x			
Focus Control	Auto/Manual			

DORI Distance

Close Focus Distance

*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

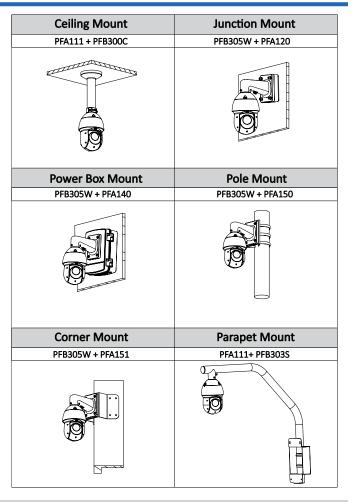
100mm~ 1000mm

Detect	Observe		Recognize	Identify	
883m(2897ft)	353m(1158ft)		177m(581ft)	88m(289ft)	
PTZ					
Pan/Tilt Range	Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°		
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s			
Preset Speed		Pan: 240° /s; Tilt: 200° /s			
Presets		300			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			
Speed Setup		Human-oriented focal Length/ speed adaptation			
Power up Action		Auto restore to previous PTZ and lens status after power failure			
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			
Protocol		DH-SD, Pelco-P/D (Auto recognition)			
Video					
Resolution		720P(1280×720)			
Frame Rate		25/30/50/60fps@720P			

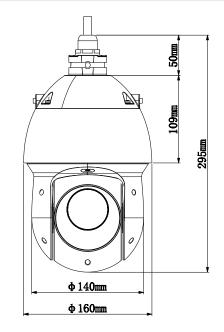
Video Output	1-channel BNC high definition video output/ CVBS standard definition video output (switchable)	
Day/Night	Auto(ICR) / Color / B/W	
OSD Menu	Support	
Backlight Compensation	BLC / HLC / WDR (120dB)	
White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Gain Control	Auto / Manual	
Noise Reduction	Ultra DNR (2D/3D)	
Digital Zoom	16x	
Flip	180°	
Privacy Masking	Up to 24 areas	
Certifications		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	
Interface		
Video Interface	1	
Audio Interface	1 channel in	
RS485	1	
Alarm I/O	2/1	
Electrical		
Power Supply	DC 12V/3A	
Power Consumption	13W, 22W (IR on, Heater on)	
Environmental		
Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH	
Ingress Protection	IP66	
Vandal Resistance	N/A	
Construction		
Casing	Metal	
Dimensions	Φ160(mm) x 295(mm)	
Net Weight	3kg(6.61lb)	
Gross Weight	4.2kg(9.26lb)	

Lite Series | DH-SD49116I-HC

Ordering Information				
Туре	Part Number	Description		
1MP PTZ Camera	DH-SD49116I-HC	1MP 16x Starlight IR PTZ HDCVI Camera, WDR, PAL		
	DH-SD49116IN-HC	1MP 16x Starlight IR PTZ HDCVI Camera, WDR, NTSC		
	SD49116I-HC	1MP 16x Starlight IR PTZ HDCVI Camera, WDR, PAL		
	SD49116IN-HC	1MP 16x Starlight IR PTZ HDCVI Camera, WDR, NTSC		
Accessories	PFB305W	Wall Mount		
	PFA111	Mount Adapter		
	DC12V/3A	Power Adapter		
	PFA140	Power Box		
	PFB300C	Ceiling Mount		
	PFA120	Junction Box		
	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB303S	Parapet Mount		



Dimensions (mm)





Accessories

Included:



PFB305W Wall Mount

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount



PFA151 Corner Mount



DC12V/3A Power Adapter



PFA120 Junction Box



PFB303S Parapet Mount



PFA140 Power Box



PFA150 Pole Mount