

# DH-SD6CE245U-HNI

2MP 45x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 45x optical zoom
- Starlight technology
- Max. 50/60fps@1080P
- Auto-tracking and IVS
- · IR distance up to 250m
- · Support PoE+
- · IP67, IK10



#### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

#### **Functions**

#### 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 0.005lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

# **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.

#### **Auto-tracking**

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

#### **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**

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40°C  $^{\sim}$  70°C (-40°F  $^{\sim}$  +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### **Protection**

The camera allows for ±25% input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	ecification			Auto Tracking	Support
Camera				IVS	Tripwire, Intrusion, Abandoned/Missing
Image Sensor		1/2.8" STARVIS™ CMOS		Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		1920(H) x 1080(V), 2 Megapixels		Video	
RAM/ROM		512M/128M		Compression	H.265+/H.265/H.264+/H.264
Scanning System		Progressive		Streaming Capability	3 Streams
Electronic Shutter S	Speed	1/1s~1/30,000s			1080P(1920×1080)/720P(1280×720)/
Minimum Illuminat	tion	Color: 0.005Lux@F1.6;B/W: 0.0005Lux@F1.6;		Resolution	D1(704×576/704×480)/CIF(352×288/352×240)
S/N Ratio		OLux@F1.6 (IR on)			Main stream: 1080P/1.3M/ 720P(1~50/60fps)
S/N Ratio  IR Distance		More than 55dB		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control		Distance up to 250m (820ft)  Auto/Manual			Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR LEDs				Bit Rate Control	CBR/VBR
Lens		6		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length		3.95mm~177.7mm		Day/Night	Auto(ICR) / Color / B/W
-				Backlight Compensation	BLC / HLC / WDR (120dB)
		F1.6~ F4.95		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View		H: 70.3° ~ 1.8°		Gain Control	Auto / Manual
Optical Zoom		45x Auto/Manual		Noise Reduction	Ultra DNR (2D/3D)
Focus Control  Close Focus Distance		100mm~ 1000mm		Motion Detection	Support
DORI Distance		100mm 1000mm		Region of Interest	Support
	istance is a "gene	eral proximity" of distance wh	ich makes it easy to	Electronic Image Stabilization (EIS)	Support
sensor specification	n and lab test res	needs. The DORI distance is ca sult according to EN 62676-4 whize and Identify respectively.		Defog	Support
Detect	Observe, Necogn	Recognize	Identify	Digital Zoom	16x
2345m(7694ft)	938m(3077fi		234m(768ft)	Flip	180°
PTZ	330111(30771)	403111(133311)	23411(7001)	Privacy Masking	Up to 24 areas
Pan/Tilt Range		Pan: 0° ~ 360° endless: Tilt:	-20° ~ 90° auto flin 180°	Audio	
Manual Control Spe	eed	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180° Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed		Pan: 300° /s; Tilt: 200° /s		Network	WI 202 22
Presets		300		Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Speed Setup		Human-oriented focal Length/ speed adaptation		Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
Power up Action		Auto restore to previous PTZ and lens status after		Interoperability	ONVIF Profile S&G, API
Idle Motion		power failure  Activate Preset/ Scan/ Tour/ Pattern if there is no		Streaming Method	Unicast / Multicast
		command in the specified period		Max. User Access	20 users
Protocol DH-SD, Pelco-P/D (Auto recognition)		giiluonj	Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Intelligence		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger				Management Software	Smart PSS, DSS, DMSS

Smart Phone

IOS, Android

#### 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 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

#### Electrical

Power Supply	AC24V/3A(±25%), PoE+(802.3at)
Power Consumption	17W, 25W(IR On, Heater On)

#### Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

#### Construction

Casing	Metal
Dimensions	ф209×337.4mm
Net Weight	5.8kg(12.79lb)
Gross Weight	9.1kg(20.06lb)

Ordering Information				
Туре	Part Number	Description		
	DH-SD6CE245U-HNI	2MP 45x Starlight IR PTZ Network Camera, WDR, PAL		
2MP PTZ	DH-SD6CE245UN-HNI	2MP 45x Starlight IR PTZ Network Camera, WDR, NTSC		
Camera	SD6CE245U-HNI	2MP 45x Starlight IR PTZ Network Camera, WDR, PAL		
	SD6CE245UN-HNI	2MP 45x Starlight IR PTZ Network Camera, WDR, NTSC		
	PFB305W	Wall Mount		
	AC24V/3A	Power Adapter		
	PFA111	Mount Adapter		
	PFA140	Power Box		
Accessories	PFB300C	Ceiling Mount		
	PFA120	Junction Box		
	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB303S	Parapet Mount		

## Accessories

## Included:



PFB305W Wall Mount

#### Optional:



PFA111 Mount Adapter



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



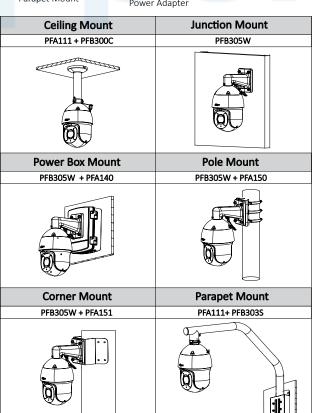
PFA151 Corner Mount



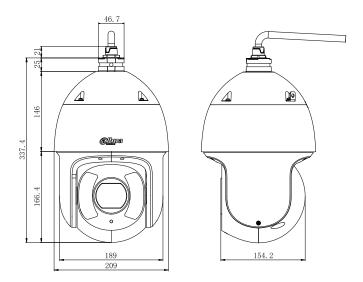
PFB303S Parapet Mount



AC24V/3A Power Adapter



# Dimensions (mm)



# Big Dipper

