

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 Specification				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 Speed		1/1s~1/30,000s		Resolution	1080P(1920×1080)/720P(1280×720)/
Minimum Illumination		Color: 0.005Lux@F1.6;B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		Resolution	D1(704×576/704×480)/CIF(352×288/352×240)
S/N Ratio		More than 55dB			Main stream: 1080P/1.3M/ 720P(1~50/60fps)
IR Distance		Distance up to 250m (820ft)		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control		Auto/Manual			Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR LEDs		6		Bit Rate Control	CBR/VBR
Lens				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length		3.95mm~177.7mm		Day/Night	Auto(ICR) / Color / B/W
Max. Aperture		F1.6~ F4.95		Backlight Compensation	BLC / HLC / WDR (120dB)
		H: 70.3° ~ 1.8°		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Optical Zoom		45x		Gain Control	Auto / Manual
Focus Control		Auto/Manual		Noise Reduction	Ultra DNR (2D/3D)
Close Focus Distance		100mm~ 1000mm		Motion Detection	Support
DORI Distance				Region of Interest	Support
*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				Electronic Image Stabilization (EIS)	Support
sensor specification	n and lab test resu	ult according to EN 62676-4 wize and Identify respectively.		Defog	Support
Detect	Observe	Recognize	Identify	Digital Zoom	16x
2345m(7694ft)	938m(3077ft)) 469m(1539ft)	234m(768ft)	Flip	180°
PTZ				Privacy Masking	Up to 24 areas
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -:	20° ~ 90°,auto flip 180°	Audio	
Manual Control Sp	eed	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	
Presets		300		Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
Speed Setup		Human-oriented focal Length/ speed adaptation			DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
Power up Action		Auto restore to previous PTZ and lens status after power failure		Interoperability	ONVIF Profile S&G, API
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Streaming Method	Unicast / Multicast
Protocol		DH-SD, Pelco-P/D (Auto recognition)		Max. User Access	20 users
Intelligence			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Web Viewer	IE, Chrome, Firefox, Safari
				Management Software	Smart PSS, DSS, DMSS
				Smart Phone	IOS Android

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
	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	24 VDC, 2.5 A (±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 Part Number Description Type 2MP 45x Starlight IR PTZ DH-SD6CE245U-HNI Network Camera, WDR, PAL 2MP 45x Starlight IR PTZ DH-SD6CE245UN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 45x Starlight IR PTZ SD6CE245U-HNI Network Camera, WDR, PAL 2MP 45x Starlight IR PTZ SD6CE245UN-HNI Network Camera, WDR, NTSC PFB305W Wall Mount 24 VDC, 2.5 A Power Adapter PFA111 Mount Adapter PFA140 Power Box PFB300C Ceiling Mount Accessories PFA120 Junction Box PFA150 Pole Mount PFA151 **Corner Mount** PFB303S Parapet Mount

Accessories

Included:





PFB305W Wall Mount

DC24V 2.5A Power Adapter

Optional:



PFA111 Mount Adapter







PFA140 Power Box

Ceiling Mount



PFA150 Pole Mount

PFA151 Corner Mount



PFA120

Junction Box

PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA111 + PFB300C	PFB305W	
Power Box Mount	Pole Mount	
PFB305W + PFA140	PFB305W + PFA150	
Corner Mount	Parapet Mount	
PFB305W + PFA151	PFA111+ PFB303S	

Dimensions (mm)

