

DH-ED145 4MP IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP resolution with a motorized 2.8mm/3.6mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination

- · 1/3" 4Megapixel progressive CMOS
- · H.265+ & H.265 dual-stream encoding
- · 20fps@4M(2560×1440) &25/30fps@3M(2304×1296)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- ·IP67, IK10, PoE



provides high performance in extreme low-light environments up to 30m (98ft).

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-20° C to +50° C (-4° F to +122° F) with 95% humidity.

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

Interoperability

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



ALPS 2.0 | DH-ED145

Technical Specification

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Camera	Camera					
Image Sensor		1/3" 4Megapixe	1/3" 4Megapixel progresive CMOS			
Effective Pixels		2560(H)x1440(V)				
RAM/ROM		256MB/16MB				
Scanning System		Progressive				
Minimum Illumination		0.09Lux/F2.0(Color,1/3s,30IRE) 0.5Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 30m(98ft)				
IR On/Off Contro	IR On/Off Control		Auto/ Manual			
IR LEDs		24				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8 mm (3.6 mm optional)				
Max. Aperture		F2.0/F2.0				
Angle of View		H:101°/80°, V:54°/44°				
Focus Control		Fixed				
Close Focus Distance		0.5m(1.64ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	56m(184ft)	22.4m(73.5ft)	11.2m(36.7ft)	5.6m(18.4ft)	
	3.6 mm	80m(262.5ft)	32m(105ft)	16m(52.5ft)	8m(26.3ft)	
PTZ						
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°				

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Video		
Compression	H.265/H.264H/MJPEG(Sub Stream)	
Smart Codec	Support H.265+/H.264+	
Streaming Capability	2 Streams	
Resolution	4M(2560X1440)/3M(2304×1296)/1080P(1920×1080)/7 20P(1280×720)/VGA(640×480)/D1(704×576/704×480)/ CIF(352×288/352×240)	
Frame Rate	Main Stream: 4M(1 ~ 20fps)	
	Sub Stream: D1(1 ~ 20fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 32K~6144K H.265: 12K~ 6144K	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / DWDR	

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;T LS;SSH
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS(Network Attached Storage), Local PC for instant recording
Edge Storage	Local PC for instant recording
Edge Storage Web Viewer	Local PC for instant recording
Edge Storage Web Viewer Management Software	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS,DMSS
Edge Storage Web Viewer Management Software Smart Phone	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS,DMSS
Edge Storage Web Viewer Management Software Smart Phone Certifications	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000)
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000)
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS,DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B N/A N/A
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B N/A N/A N/A
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface RS485 Alarm	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B N/A N/A N/A
Edge Storage Web Viewer Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical	Local PC for instant recording IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS IOS, Android CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B N/A N/A N/A

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Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH	
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Ingress Protection	IP67	
Vandal Resistance	IK10	
Construction		
Casing	Metal	
Dimensions	Ф122mm × 98.1mm (4.8" x3.86")	
Net Weight	0.35Kg (0.77lb)	
Gross Weight	0.49Kg (1.08lb)	

Accessories

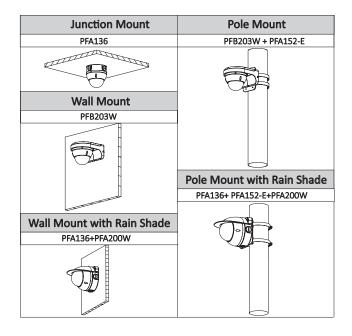
Optional:



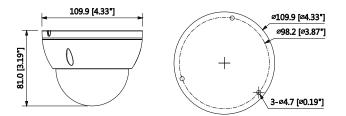




PFA136 Junction Box PFB203W PFA152-E Wall mount Pole mount PFA200W Rain Shade



Dimensions (mm/inch)





Ordering Information			
Туре	Part Number	Description	
4MP Camera	DH-ED145P	4MP IR Mini-Dome Network Camera, PAL	
	DH-ED145N	4MP IR Mini-Dome Network Camera, NTSC	
Accessories (optional)	PFA136	Junction box	
	PFB203W	Wall mount	
	PFA152-E	Pole mount	
	PFA200W	Rain Shade	