

Multi-sensor Panoramic + PTZ Network Camera

8 x 2 MP Multi-sensor 360° Panoramic + 4 MP PTZ Network Camera



System Overview

The Dahua Panoramic Multi-sensor plus PTZ camera combines eight (8) 2 MP sensors working in tandem to create a comprehensive 360° view, and a high-speed PTZ camera to focus on a specific area of the scene. With its all-in-one design, the camera provides a 360° panorama and provides region of interest details at the same time. The camera offers the Intelligent Video System (IVS), a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for tripwire violations and intrusion detection, and Smart Tracking technology that integrates the width of the panoramic scene with the tracking capability of the PTZ camera. The Multi-sensor plus PTZ camera can replace multiple single-sensor cameras providing a higher return on investment.

Functions

Smart Tracking

The Smart Tracking features integrates the 360° panoramic view with the capabilities of the PTZ camera. Smart Tracking triggers the PTZ camera to turn and to zoom in on an area that where an alarm is triggered, track an object after an intrusion or tripwire violation, and tracks movement in up to four (4) monitoring areas in the panoramic image.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

- Panoramic Camera: Eight (8) 1/1.8-in. 2 MP Progressive-scan CMOS Imagers for a 360° Panoramic View
- PTZ Camera: One (1) 1/1.8-in 4 MP Progressive-scan CMOS Imager
- · Triple-stream Encoding
- 8192 x 1800 at 30 fps (Panoramic) plus 2560 x 1440 at 30 fps (PTZ)
- Smart H.265+ and Smart H.264+ Dual Codecs
- Starlight Technology for Ultra-low Light Sensitivity
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection
- Zoom Priority for Optimal IR Coverage at Any Zoom Level
- Intelligent Video System (IVS) with Smart Track
- Five-year Warranty*

















ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components, a waterproof enclosure, and an integrated heater to ensure flawless operation in temperatures as low as -40° C (-40° F). For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations and intrusion detection. A camera with IVS quickly and accurately responds to monitoring events in a specific area. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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.

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.

Environmental

Subjected to rigorous dust and water immersion tests the camera suitable for the most demanding outdoor applications. The camera carries an IP66 rating that ensures protection from total dust ingress and protection from high pressure water jets from any direction.



Technical Specification Panoramic Camera Image Sensor Eig

Image Sensor	Eight (8) 1/1.8-in. 2 MP CMOS Sensors
Effective Pixels	8192(H) x 1800(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto, Manual: 1/3 s to 1/100,000 s
Minimum Illumination	Color: 0.01 lux at F2.0

Panoramic Lens

Lens Type	Fixed
Mount Type	M12
Focal Length	5 mm
Maximum Aperture	F2.0
Angle of View	Horizontal: 360° Vertical: 84°
Close Focus Distance	1.20 m (3.94 ft)

PTZ Camera

Image Sensor	One (1) 1/1.8-in. 4 MP CMOS Sensor
Effective Pixels	2560(H) x 1440(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto, Manual: 1/3 s to 1/100,000 s
Minimum Illumination	Color: 0.008 lux at F1.3 (1/3 s, 30 IRE)
IR Distance	Up to 400.0 m (1312.34 ft)
IR On/Off Control	Auto, Manual
IR LEDs	Seven (7)

PTZ Lens

Lens Type	Electronic Zoom
Mount Type	Core Interface
Focal Length	5.6 mm to 223 mm
Maximum Aperture	F1.3
Angle of View	Horizontal: 61° to 2° Vertical: 36° to 1° Diagonal: 68° to 3°
Optical Zoom	40x
Focus Control	Motorized
Close Focus Distance	0.50 m (1.64 ft)

DORI¹ Distance

	Detect	Observe	Recognize	Identify
	(8 ppf)	(19 ppf)	(38 ppf)	(76 ppf)
Panoramic	53.30 m	21.30 m	10.70 m	5.30 m
Camera	(174.87 ft)	(69.88 ft)	(35.10 ft)	(17.39 ft)
PTZ Camera,	2873.10 m	1149.20 m	574.60 m	287.30 m
Telephoto	(9426.18 ft)	(3770.34 ft)	(1885.17 ft)	(942.59 ft)

1. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

PTZ

Pan/Tilt Range	Pan: 0° to 360°, endless Tilt: -20° to 90° Auto flip: 180°	
Manual Speed Control	Pan: 0.1° /s to 240° /s Tilt: 0.1° /s to 120° /s	
Presets	300	
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Speed Setup	Human-oriented Focal Length and 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)	

11010001			DIT 3D, I CICO I / D (Auto I CCognition)	
Video				
Compression		n	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	
Strea	ming C	apability	Three (3) Streams	
Outp	ut Char	nnels²	Two (2) Channels: One (1) Channel for Stitched Panoramic Video One (1) Channel for PTZ Video	
Reso	ution			
	Pano	oramic Camera	8192 x 1800, 7680 x 1680, 5760 x 1264, 4800 x 3840, 4096 x 900, 3840 x 832, 3200 x 2560, 2560 x 560, 2048 x 452, 1600 x 1280	
	PTZ	Camera	4 MP (2560 x 1440), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)	
Fram	e Rate			
	Mair	Stream	Panoramic Camera: 8192 x 1800 at 30 fps PTZ Camera: 4 MP at 30 fps	
	Sub	Stream 1	Panoramic Camera: 3840 x 832 at 30 fps PTZ Camera: D1 or CIF at 30 fps	
	Sub	Stream 2	Panoramic Camera: 4800 x 3480 at 30 fps PTZ Camera: 1080p, 1.3 MP, or 720p at 30 fps	
Bit Rate Control		trol	CBR, VBR	
Panoramic Bit Rate		Panoramic	H.265: 256 Kbps to 26216 Kbps H.264: 512 Kbps to 42995 Kbps	
DICINO	ite	PTZ	H.265: 110 Kbps to 9216 Kbps H.264: 184 Kbps to 15104 Kbps	
Day/I	Night		Auto (ICR), B/W, Color	
BLC N	∕lode		BLC, HLC, WDR	
Dyna	mic	Panoramic	True WDR (120 dB)	
Rang	e	PTZ	Digital WDR	
\A/b:+		Panoramic	Auto, Natural, Street Lamp, Outdoor, Manual, Regional	
White Balance PTZ		PTZ	Auto, Indoor, Outdoor, Manual, Sodium Lamp, Natural, Street Lamp	
Gain Control		I	Auto, Manual, Aperture Priority, Gain Priority, Shutter Priority	
Noise Reduction		tion	3D DNR	
Motion Detection		ection	Off, On	
Region of Interest		terest	Off, On (4 Zones)	
Defog			Support, PTZ camera only	
Digita	al Zoon	1	16x, PTZ camera only	
Priva	су	Panoramic	Off, On (4 Areas, Rectangle)	
Mask	ing	PTZ	Off, On (8 Areas, Rectangle)	

^{2.} Dahua recommends using an NVR that supports 4K decoding and ONVIF compatibility in conjunction with the DH-PSDW81642M-A360 Multi-sensor Panoramic + PTZ Network Camera. The camera requires two (2) free channels on the NVR.

Ultra Series | DH-PSDW81642M-A360

Compression G.711a, G.711Mu, AAC, G.726	Audio			
Ethernet One (1) RJ-45 Port (10/100/1000 Base-T) Protocol DNS, DDNS, PPOG, IPV4/VG, QoS, UPAP, NTP, BONJOUR, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF Profile G, CGI Streaming Method Unicast/Multicast Maximum User Access 20 Users Edge Storage Network Attached Storage (NAS) FTP One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only) Web Viewer IE Management Software Smart PSS, DSS Express, DSS Express S, DSS Pro Certifications Safety UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 Electromagnetic Compatibility (EMC) 47 CFR FCC Part 15 Subpart B, Class A ANSI C63.4:2014 Interface Video One (1) Port, CVBS BNC for PTZ camera only Input: Two (2) Channels Output: Two (2) Channels Output: Two (2) Channels One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control Alarm Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption < 84.4 W Environmental Operating Conditions —40° C to +70° C (—40° F to +158° F), < 95% RH Ingress Protection IP66 Construction Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Compression G.711a, G.711M		G.711a, G.711Mu, AAC, G.726	
Protocol HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, DDNS, PPDG, IPv4/v6, QoS, UPAP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF Profile G, CGI Streaming Method Unicast/Mulitcast Maximum User Access 20 Users Network Attached Storage (NAS) FTP One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only) Web Viewer IE Management Software Smart PSS, DSS Express, DSS Express S, DSS Pro Certifications Safety UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 Electromagnetic COMPATIBILITY (SM) CG3.4:2014 Interface Video One (1) Port, CVBS BNC for PTZ camera only Input: Two (2) Channels Output: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Three (3) Channels (3 VDC to 5 VDC, 5 mA) Electrical Power Supply 36 VDC Power Consumption <84.4 W Environmental Operating Conditions —40° C to +70° C (−40° F to +158° F), ≤ 95% RH Ingress Protection IP66 Construction Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Network			
Protocol DNS, DDNS, PPDE, IPVA/v6, QoS, UPNP, NTP, Bonjour, 802;1x, Multicast, ICMP, IGMP, SNMP Interoperability ONVIF Profile G, CGI Streaming Method Unicast/Multicast Maximum User Access 20 Users Network Attached Storage (NAS) FTP One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only) Web Viewer IE Management Software Smart PSS, DSS Express, DSS Express S, DSS Pro Certifications Safety UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, CVBS BNC for PTZ camera only Input: Two (2) Channels Output: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA) Electrical Power Supply 36 VDC Power Consumption Seven (7) Channels (3 VDC, 1 A, 50 VAC, 0.5 A) Electrical Power Consumption C 84.4 W Environmental Operating Conditions —40° C to +70° C (—40° F to +158° F), < 95% RH Ingress Protection Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Ethernet		One (1) RJ-45 Port (10/100/1000 Base-T)	
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Edge Storage Network Attached Storage (NAS) FTP One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only)	Streaming Me	ethod	Unicast/Mulitcast	
Edge Storage FTP One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only) Web Viewer IE Management Software Smart PSS, DSS Express, DSS Express S, DSS Pro Certifications Safety UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, CVBS BNC for PTZ camera only Input: Two (2) Channels Output: Two (3) Channels (3 VDC to 5 VDC, 5 mA) For PTZ control Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption A84.4 W Environmental Operating Conditions —40° C to +70° C (−40° F to +158° F), ≤ 95% RH Ingress Protection Construction Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (Ø15.08 in. x 15.35 in.) Net Weight Net Weight Net Weight	Maximum Use	er Access	20 Users	
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Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption <84.4 W Environmental Operating Conditions -40° C to +70° C (-40° F to +158° F), ≤ 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F), ≤ 95% RH Ingress Protection IP66 Construction Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (Ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Alama	Input	Seven (7) Channels (3 VDC to 5 VDC, 5 mA)	
Power Supply36 VDCPower Consumption< 84.4 W	Alarm	Output	Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)	
Power Consumption < 84.4 W	Electrical			
Environmental Operating Conditions -40° C to $+70^{\circ}$ C $(-40^{\circ}$ F to $+158^{\circ}$ F), $\leq 95\%$ RH Storage Conditions -40° C to $+60^{\circ}$ C $(-40^{\circ}$ F to $+140^{\circ}$ F), $\leq 95\%$ RH Ingress Protection IP66 Construction Casing Metal and Plastic Dimensions $\emptyset 383.0 \text{ mm x } 389.80 \text{ mm } (\emptyset 15.08 \text{ in. x } 15.35 \text{ in.)}$ Net Weight $14.70 \text{ kg } (32.41 \text{ lb})$	Power Supply		36 VDC	
Operating Conditions -40° C to +70° C (−40° F to +158° F), ≤ 95% RH Storage Conditions -40° C to +60° C (−40° F to +140° F), ≤ 95% RH Ingress Protection IP66 Construction Casing Metal and Plastic Dimensions \emptyset 383.0 mm x 389.80 mm (\emptyset 15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Power Consu	mption	< 84.4 W	
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Ingress Protection Construction Casing Metal and Plastic Dimensions Ø383.0 mm x 389.80 mm (Ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Operating Conditions		-40° C to +70° C (-40° F to +158° F), ≤ 95% RH	
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Casing Metal and Plastic Dimensions ø383.0 mm x 389.80 mm (ø15.08 in. x 15.35 in.) Net Weight 14.70 kg (32.41 lb)	Ingress Protection		IP66	
Dimensions	Construction			
Net Weight 14.70 kg (32.41 lb)	Casing		Metal and Plastic	
	Dimensions		ø383.0 mm x 389.80 mm (ø15.08 in. x 15.35 in.)	
Gross Weight 19.80 kg (43.65 lb)	Net Weight		14.70 kg (32.41 lb)	
	Gross Weight		19.80 kg (43.65 lb)	

Intelligent Video System Functions			
IVS triggers an alarm and takes a	defined action for the following events:		
Tampering with the camera. Error writing to an onboard Micro SD card. Standard Features Error sending or receiving data over the network. Unauthorized access to the camera. IP Address Conflict			
Premium Features			
Motion	An object moves through any part of the scene.		
Tripwire	A target crosses a user-defined line.		
Intrusion	A target enters or exits a defined perimeter.		
Smart Tracking	A target in a defined area of the panoramic channel triggers an alarm and the PTZ camera moves to that location to begin tracking		

Ordering Information				
Туре	Part Number	Description		
Panoramic + PTZ Camera	DH-PSDW81642M-A360	Eight (8) x 4 MP Multi-sensor Panoramic + 4 MP PTZ Network Camera, WDR		
Accessory, Included	Power Adapter	36 VDC, 0 - 4, 17 A		
Ai	DH-PFA153	Heavy-duty Pole Mount (use with PFB710W)		
Accessories, Optional	PFB710C	Ceiling Mount Bracket		
	PFB710W	Wall Mount Bracket		

Pole Mount	Ceiling-mounted	Wall Mount
PFB710W + DH-PFA153	PFB710C	PFB710W



