

# 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.

#### Crowd and Vehicle Density

The multi-sensor camera offers advanced crowd and vehicle counting functions to send alerts when the number of people or vehicles in a defined area exceed a set threshold. These functions are useful to determine if a crowd is getting too large, if traffic congestion is increasing, and it a parking lot is reaching capacity.

# 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  $-40^{\circ}$  C ( $-40^{\circ}$  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 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 Color: 0.01 lux at F2.0 Minimum Illumination Panoramic Lens Lens Type Fixed M12 Mount Type 5 mm Focal Length Maximum Aperture F2.0 Horizontal: 360° Angle of View 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 Auto, Manual: 1/3 s to 1/100,000 s Electronic Shutter Speed Color: 0.008 lux at F1.3 (1/3 s, 30 IRE) Minimum Illumination Up to 400.0 m (1312.34 ft) IR Distance IR On/Off Control Auto, Manual IR LEDs Seven (7) PTZ Lens Lens Type Electronic Zoom Core Interface Mount Type Focal Length 5.6 mm to 223 mm Maximum Aperture F1.3 Horizontal: 61° to 2° Angle of View Vertical: 36° to 1° Diagonal: 68° to 3° Optical Zoom 40x **Focus Control** Motorized Close Focus Distance 0.50 m (1.64 ft) DORI<sup>1</sup> Distance Detect Observe Recognize Identify (38 ppf) (8 ppf) (19 ppf) (76 ppf) **Panoramic** 53.30 m 21.30 m 10.70 m 5.30 m

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.

(69.88 ft)

1149.20 m

(3770.34 ft)

(35.10 ft)

574.60 m

(1885.17 ft)

(17.39 ft)

287.30 m

(942.59 ft)

(174.87 ft)

2873.10 m

(9426.18 ft)

PTZ Camera,

Telephoto

## 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)

Video		
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG
Streaming Capability		Three (3) Streams
Output Channels <sup>2</sup>		Two (2) Channels:  One (1) Channel for Stitched Panoramic Video  One (1) Channel for PTZ Video
Resolutio	n	
Pa	nnoramic 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
P-	TZ 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)
Frame Ra	te	
M	ain Stream	Panoramic Camera: 8192 x 1800 at 30 fps PTZ Camera: 4 MP at 30 fps
Sub Stream 1 Sub Stream 2		Panoramic Camera: 3840 x 832 at 30 fps PTZ Camera: D1 or CIF at 30 fps
		Panoramic Camera: 4800 x 3480 at 30 fps PTZ Camera: 1080p, 1.3 MP, or 720p at 30 fps
Bit Rate C	ontrol	CBR, VBR
Dit Data	Panoramic	H.265: 256 Kbps to 26216 Kbps H.264: 512 Kbps to 42995 Kbps
Bit Rate	PTZ	H.265: 110 Kbps to 9216 Kbps H.264: 184 Kbps to 15104 Kbps
Day/Nigh	t	Auto (ICR), B/W, Color
BLC Mode	2	BLC, HLC, WDR
Dynamic	Panoramic	True WDR (120 dB)
Range	PTZ	Digital WDR
White	Panoramic	Auto, Natural, Street Lamp, Outdoor, Manual, Regional
Balance	PTZ	Auto, Indoor, Outdoor, Manual, Sodium Lamp, Natural, Street Lamp
Gain Control		Auto, Manual, Aperture Priority, Gain Priority, Shutter Priority
Noise Reduction		3D DNR
Motion Detection		Off, On
Region of Interest		Off, On (4 Zones)
Defog		Support, PTZ camera only
Digital Zoom		16x, PTZ camera only
Privacy	Panoramic	Off, On (4 Areas, Rectangle)
Masking	PTZ	Off, On (8 Areas, Rectangle)

<sup>2.</sup> 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.

Compression   G.711a, G.711Mu, AAC, G.726	Audio			
Ethernet One (1) RJ-45 Port (10/100/1000 Base-T)  Protocol BHTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPOGE, 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.711Mu, AAC, G.726	
Protocol HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, DDNS, PPPOE, IPV4/v6, QoS, UPAR, 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 One (1) Port, CVBS BNC for PTZ camera only  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)  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)	Network			
Protocol  DNS, DDNS, PPDC, IPV4/v6, QoS, UPAP, 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)  Output Three (3) Channels (3 VDC, 1 A, 50 VAC, 0.5 A)  Electrical  Power Supply  36 VDC  Power Consumption <a href="#">Seven (7) Channels (3 VDC, 1 A, 50 VAC, 0.5 A)</a> Electrical  Power Consumption <a href="#">C 84.4 W</a> Environmental  Operating Conditions  -40° C to +70° C (-40° F to +140° 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)	
Streaming Method       Unicast/Mulitcast         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       UL 60950-1 CAN/CSA C22.2 No. 60950-1-07         Safety       47 CFR FCC Part 15 Subpart B, Class A ANSI C63.4:2014         Interface       One (1) Port, CVBS BNC for PTZ camera only         Video       One (1) Port, CVBS BNC for PTZ camera only         Audio       Input: Two (2) Channels Output: Two (2) Channels         RS485       One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control         Alarm       Seven (7) Channels (3 VDC to 5 VDC, 5 mA)         Output       Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)         Electrical       Power Supply         Power Consumption       < 84.4 W	Protocol		DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour,	
Maximum User Access       20 Users         Edge Storage       Network Attached Storage (NAS) FTP GNe (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       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         Audio       Input: Two (2) Channels         One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control         Alarm       Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)         Alarm       Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)         Electrical         Power Supply       36 VDC         Power Consumption       < 84.4 W	Interoperability		ONVIF Profile G, CGI	
Edge Storage    Network Attached Storage (NAS)   FTP   One (1) Micro SD Card slot, maximum 512 GB (for panoramic camera only)	Streaming Method		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 (2) Channels Output: Two (2) Channels Output: Two (2) Channels One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control  Alarm  Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA) Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)  Electrical  Power Supply  36 VDC  Power Consumption <a href="#">A84.4 W</a> 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)	Maximum User Access		20 Users	
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         Audio       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       Seven (7) Channels (3 VDC to 5 VDC, 5 mA)         Output       Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)         Electrical       Power Supply         Power Consumption       < 84.4 W	Edge Storage		FTP One (1) Micro SD Card slot, maximum 512 GB	
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           Audio         Input: Two (2) Channels Output: Two (2) Channels           RS485         One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control           Alarm         Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)           Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)           Electrical           Power Supply         36 VDC           Power Consumption         < 84.4 W	Web Viewer		IE	
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           Audio         Input: Two (2) Channels Output: Two (2) Channels           RS485         One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control           Alarm         Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)           Output         Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)           Electrical         Power Supply         36 VDC           Power Consumption         < 84.4 W	Management	Software	Smart PSS, DSS Express, DSS Express S, DSS Pro	
Safety         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           Audio         Input: Two (2) Channels Output: Two (2) Channels           One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control           Alarm         Seven (7) Channels (3 VDC to 5 VDC, 5 mA)           Output         Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)           Electrical           Power Supply         36 VDC           Power Consumption         < 84.4 W	Certification	ons		
Compatibility (EMC)         ANSI C63.4:2014           Interface           Video         One (1) Port, CVBS BNC for PTZ camera only           Audio         Input: Two (2) Channels Output: Two (2) Channels           RS485         One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control           Alarm         Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)           Output         Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)           Electrical         Power Supply           Power Consumption         < 84.4 W           Environmental         Operating Conditions           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)	Safety			
Video         One (1) Port, CVBS BNC for PTZ camera only           Audio         Input: Two (2) Channels Output: Two (2) Channels           RS485         One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control           Alarm         Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)           Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)           Electrical           Power Supply         36 VDC           Power Consumption         < 84.4 W	_			
Audio       Input: Two (2) Channels Output: Two (2) Channels         RS485       One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control         Alarm       Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)         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)	Interface			
Audio       Output: Two (2) Channels         RS485       One (1) Port (Bit Rate: 1200 bps to 115200 bps), for PTZ control         Alarm       Input Seven (7) Channels (3 VDC to 5 VDC, 5 mA)         Output Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)         Electrical         Power Supply 36 VDC         Power Consumption        < 84.4 W	Video		One (1) Port, CVBS BNC for PTZ camera only	
Input   Seven (7) Channels (3 VDC to 5 VDC, 5 mA)	Audio			
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 $-40^{\circ}$ C to $+70^{\circ}$ C $(-40^{\circ}$ F to $+158^{\circ}$ F), $\leq 95\%$ RH  Storage Conditions $-40^{\circ}$ C to $+60^{\circ}$ C $(-40^{\circ}$ F to $+140^{\circ}$ F), $\leq 95\%$ RH  Ingress Protection IP66  Construction  Casing Metal and Plastic  Dimensions $\emptyset 383.0 \text{ mm} \times 389.80 \text{ mm} (\emptyset 15.08 \text{ in.} \times 15.35 \text{ in.})$ Net Weight $14.70 \text{ kg} (32.41 \text{ lb})$	RS485			
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)	Alarm	Input	Seven (7) Channels (3 VDC to 5 VDC, 5 mA)	
Power Supply         36 VDC           Power Consumption         < 84.4 W	Aldilli	Output	Three (3) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)	
Power Consumption < 84.4 W  Environmental  Operating Conditions $-40^{\circ}$ C to +70° C (−40° F to +158° F), ≤ 95% RH  Storage Conditions $-40^{\circ}$ 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)	Electrical			
Environmental  Operating Conditions $-40^{\circ}$ C to $+70^{\circ}$ C ( $-40^{\circ}$ F to $+158^{\circ}$ F), $\leq 95\%$ RH  Storage Conditions $-40^{\circ}$ C to $+60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ F), $\leq 95\%$ RH  Ingress Protection  Construction  Casing  Metal and Plastic  Dimensions $\phi 383.0 \text{ mm} \times 389.80 \text{ mm} (\phi 15.08 \text{ in.} \times 15.35 \text{ in.})$ Net Weight $14.70 \text{ kg} (32.41 \text{ lb})$	Power Supply		36 VDC	
Operating Conditions $-40^{\circ}$ C to $+70^{\circ}$ C ( $-40^{\circ}$ F to $+158^{\circ}$ F), ≤ 95% RH         Storage Conditions $-40^{\circ}$ C to $+60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ 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	
Storage Conditions  -40° C to +60° C (−40° F to +140° 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  14.70 kg (32.41 lb)	Environme	ental		
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 Co	nditions	$-40^{\circ}$ C to $+70^{\circ}$ C ( $-40^{\circ}$ F to $+158^{\circ}$ F), $\leq 95\%$ RH	
Construction         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)	Storage Cond	itions	$-40^{\circ}$ C to $+60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ F), $\leq 95\%$ RH	
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 Protec	ction	IP66	
Dimensions	Constructi	on		
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)	

Analytics+ Functions	Analytics+ Functions		
Crowd Density <sup>2</sup>	Detects crowd density and displays it on a heat map, Triggers an alarm when the crowd quantity or density exceeds a set threshold in selected area.  Detects up to 1024 people Apply to eight (8) regions Detection radius up to 30 m (98.43 ft)		
Vehicle Density <sup>2</sup>	Analyses the scene for the number of vehicles and vehicle congestion selected lanes.  • Offers Traffic Congestion and Upper Parking Limit functions  • Minimum pixel requirement: ≥ 80 pixels  • Apply to 16 regions  • Detection radius up to 80 m (262.47 ft)		
	2. The Crowd Density and Vehicle Density functions are available on the camera, however the functions are compatible with only the DSS video management software.		
Intelligent Video Syster	Intelligent Video System Functions		
IVS triggers an alarm and takes a	IVS triggers an alarm and takes a defined action for the following events:		
Standard Features	<ul> <li>Tampering with the camera.</li> <li>Error writing to an onboard Micro SD card.</li> <li>Error sending or receiving data over the network.</li> <li>Unauthorized access to the camera.</li> <li>IP Address Conflict</li> </ul>		
Premium Features	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

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



