

Multi-sensor Panoramic + PTZ Network Camera

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



- Panoramic Camera: Eight (8) 1/1.9-in. 2 MP Progressive Scan CMOS Imagers
- PTZ Camera: One (1) 1/1.9-in 2 MP Progressive Scan CMOS Imager
- 360° Panoramic View
- Starlight Technology for Ultra-low Light Sensitivity
- Triple-stream Encoding with Smart H.265+ Compression
- 2 x 4096 x 1800 at 25 fps (Panoramic) plus 1080p at 60 fps (PTZ)
- Day/Night (ICR), 3DNR, AWB, AGC, BLC
- True Wide Dynamic Range (120 dB)
- · Intelligent Video System (IVS) with Auto-tracking
- IP67 Ingress Protection and IK10 Vandal Resistance















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 360° scene. With its all-in-one design, the camera provides a 360° panorama and provides region of interest details at the same time. In addition, 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, intrusion detection, Auto-tracking and abandoned or missing objects. A camera with. The Multi-sensor plus PTZ camera can replace multiple single-sensor cameras providing a higher return on investment.

Functions

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

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. 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.

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 pre-defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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.

Interoperability

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

Environmental

With a built-in heater and a temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning, and its IP67 ingress protection make it the choice for installation in even the most unforgiving environments. The camera complies with the IK10 Vandal Resistance impact rating and is capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).



Technical Specification Panoramic Camera Image Sensor Eight (8) 1/1.9-in. 2 MP CMOS Sensors 2 x 4096(H) x 1800(V) **Effective Pixels** Scanning System Progressive Electronic Shutter Speed Auto, Manual: 1/3 s to 1/100,000 s Color: 0.005 lux at F2.2 (1/3 s, 30 IRE) Color: 0.03 lux at F2.2 (1/30 s, 30 IRE) Minimum Illumination B/W: 0.003 lux at F2.2 (1/3 s, 30 IRE) B/W: 0.02 lux at F2.2 (/30 s, 30 IRE) More than 50 dB S/N Ratio Panoramic Lens Fixed Lens Type Board-in Mount Type Focal Length 5 mm F2.2 Maximum Aperture Horizontal: 360° Angle of View Vertical: 80° PTZ Camera One (1) 1/1.9-in. 2 MP CMOS Sensor Image Sensor 1920(H) x 1080(V) **Effective Pixels** 1024 MB / 128 MB RAM/ROM Scanning System Progressive Auto, Manual: 1/3 s to 1/100,000 s Electronic Shutter Speed Color: 0.002 lux at F1.5 (1/3 s, 30 IRE) Color: 0.01 lux at F1.5 (1/30 s, 30 IRE) Minimum Illumination B/W: 0.001 lux at F1.5 (1/3 s, 30 IRE) B/W: 0.008 lux at F1.5 (/30 s, 30 IRE) S/N Ratio More than 50 dB PTZ Lens Motorized / Auto Iris (HALL) Lens Type Board-in Mount Type 5.5 mm to 206.0 mm Focal Length Maximum Aperture Horizontal: 65.8° to 2.0° Angle of View Optical Zoom 37x Motorized **Focus Control** DORI¹ Distance Detect Observe Recognize Identify (8 ppf) (19 ppf) (38 ppf) (76 ppf) 53 m 21 m 10 m 5 m Panoramic Camera (178 ft) (69 ft) (33 ft) (17 ft) 70 m 28 m 14 m 7 m PTZ Camera, Wide-angle (23 ft) (229 ft) (92 ft) (46 ft) 2080 m 832 m 416 m 208 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	ŝ
according to	EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identif	У
classification	S.	

(2730 ft)

(6824 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		

Protocol			DH-SD, Pelco-P/D (Auto recognition)
Video			
Compression			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Stream	ing Ca	pability	• Three (3) Streams
Output Channels ²		nels²	Three (3) Channels: • Two (2) Channels for Stitched Panoramic Video • One (1) Channel for PTZ Video
Resolut	ion		
	Panoramic Camera		2 x 4096 x 1800, 2 x 3840 x 1680, 2 x 2880 x 1264, 2 x 1920 x 832, 2 x 1280 x 560, 2 x 1024 x 452
	PTZ Camera		1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)
Frame I	Rate		
	Main	Stream	Panoramic Camera: 2 x 4096 x 1800 at 25 fps PTZ Camera: 1080p at 60 fps
	Sub St	tream 1	Panoramic Camera: 2 x 1024 x 452 at 30 fps PTZ Camera: D1 at 60 fps
Sub Stream 2		tream 2	Panoramic Camera: 2 x 1920 x 832 at 30 fps PTZ Camera: 1080p at 60 fps
Bit Rate Control		rol	CBR, VBR
Dit Date	-	Panoramic	H.265: 2 x 14 Kbps to 8192 Kbps H.264: 2 x 24 Kbps to 8192 Kbps
Bit Rate	PTZ		H.265: 4 Kbps to 8192 Kbps H.264: 8 Kbps to 7168 Kbps
Day/Night			Auto (ICR), Color, B/W
BLC Mo	BLC Mode		BLC, HLC, True WDR (120 dB)
White E	White Balance		Auto, Natural, Street Lamp, Outdoor, Manual
Gain Control			Auto, Manual
Noise Reduction		ion	3D DNR
Motion Detection		ction	Off, On (4 Zone, Rectangle)
Region of Interest		erest	Off, On (4 Zone)
Defog			Support, PTZ camera only
Digital Zoom			16x
Privacy		Panoramic	Off, On (4 Area, Rectangle)
Maskin	g	PTZ	Off, On (24 Area, Rectangle)

(682 ft)

(1365 ft)

^{2.} Dahua recommends using an NVR that supports 4K decoding and ONVIF compatibility in conjunction with the DH-PSD81602N-A360 Multi-sensor Panoramic + PTZ Network Camera. The camera requires three (3) free channels on the NVR.

Ultra | DH-PSD81602N-A360

Compression G.711a, G.711Mu, AAC, G.726	Audio		
Ethernet One (1) RI-45 Port (100/1000 Base-T) Protocol HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/V6, Co5, UPPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP IP Address Default Address: 192.168.1.108 (Camera uses a single IP address for all sensors) Interoperability ONVIF, PSIA, CGI Streaming Method Unicast, Multicast Maximum User Access 10 Users / 20 Users Edge Storage NaS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications Safety EN 60950-2000 U160950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A, 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption < 120 W Environmental Operating Conditions -40° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions (9449.50 mm x 342.50 mm (617.70 in. x 13.48 in.)) Net Weight 16.0 kg (35.27 lb)	Compression	G.711a, G.711Mu, AAC, G.726	
Protocol HTTP, HTTP, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4/V6, QoS, UPPP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP IP Address Default Address: 192.168.1.108 (Camera uses a single IP address for all sensors) Interoperability ONVIF, PSIA, CGI Streaming Method Unicast, Multicast Maximum User Access IO Users / 20 Users NAS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Management Software Smart PSS, DSS Mobile Operating System Certifications Safety EN 60950:2000 U160950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption <120 W Environmental Operating Conditions 40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection Wetal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Network		
Protocol DHCP, DNS, DDNS, PPPOE, IPV4/NG, QoS, UPPP, NTP, Bonjour, 802-1x, Multicast, ICMP, IGMP, SNMP IP Address Default Address: 192.168.1.108 (Camera uses a single IP address for all sensors) Interoperability ONVIF, PSIA, CGI Streaming Method Unicast, Multicast Maximum User Access IO Users / 20 Users Edge Storage NAS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications Safety EN 60950-2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption <120 W Environmental Operating Conditions 40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection Ingress Protection Ingress Protection Ingress Protection Ingress Protection Wetal Dimensions Metal Dimensions Metal Dimensions Metal Dimensions Met Weight 16.0 kg (35.27 lb)	Ethernet	One (1) RJ-45 Port (100/1000 Base-T)	
Interoperability ONVIF, PSIA, CGI Streaming Method Unicast, Multicast Maximum User Access 10 Users / 20 Users Edge Storage Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications Safety EN 60950-2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Input: Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.) Net Weight Insult Seven (7) Channel (17.70 in. x 13.48 in.) Net Weight Input: Seven (7) Channel (17.70 in. x 13.48 in.)	Protocol	DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP,	
Streaming Method Maximum User Access Edge Storage NAS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications Safety EN 60950-2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Input: Two (2) Channels Output: One (1) Channel (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.) Net Weight ISB NAS Less Train Instant recording NAS Local PC of instant recording Nas Audio II, Audio Net Weight III, Audio Net Weight III, Audio Nas Audio III, Audio Nas Audio Net Weight III, Audio Nas Audio Net Weight III, Audio Nas	IP Address		
Maximum User Access In Users / 20 Users NAS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Mobile Operating System IOS, Android Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Au° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Interoperability	ONVIF, PSIA, CGI	
Edge Storage NAS Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Alove C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight Net Weight Inc. Maximum 128 GB EN Grad, maximum 128 GB INSA Grad INFORMATION INF	Streaming Method	Unicast, Multicast	
Edge Storage Local PC for instant recording Micro SD Card, maximum 128 GB Web Viewer IE, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Maximum User Access	10 Users / 20 Users	
Management Software Mobile Operating System IoS, Android Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption 40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight Ingress PT by Carter of Conditions Indicate of Conditions Ingress PT of Conditions Ingress PT of Conditions Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.)	Edge Storage	Local PC for instant recording	
Mobile Operating System Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.) Net Weight Instruction IELECTICAL IN 600 Seven Conditions ICANO C TO 160 C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.)	Web Viewer	IE, Firefox, Safari	
Certifications Safety EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Management Software	Smart PSS, DSS	
EN 60950:2000 UL60950-1 Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight Ingress Protection IR10	Mobile Operating System	IOS, Android	
Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Certifications		
Electromagnetic Compatibility (EMC) Interface Video One (1) Port, for PTZ camera only Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight	Safety		
Video One (1) Port, for PTZ camera only Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight Ingress Protection Indicate the protection of the pro	_		
Audio Input: Two (2) Channels Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight Ingress Protection Insurance (IK10) Insuran	Interface		
Audio Output: One (1) Channel RS485 One (1) Port, for PTZ control Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Video	One (1) Port, for PTZ camera only	
Alarm Input: Seven (7) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Electrical Power Supply 36 VDC Power Consumption <120 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Audio		
Power Supply 36 VDC Power Consumption <120 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	RS485	One (1) Port, for PTZ control	
Power Supply 36 VDC Power Consumption <120 W Environmental Operating Conditions	Alarm		
Power Consumption <120 W Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions	Electrical		
Environmental Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Power Supply	36 VDC	
Operating Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Storage Conditions -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Power Consumption	< 120 W	
Storage Conditions Less than 95% RH -40° C to +60° C (-40° F to +140° F) Less than 95% RH Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Environmental		
Ingress Protection IP67 Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Operating Conditions	· · · · · · · · · · · · · · · · · · ·	
Vandal Resistance IK10 Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Storage Conditions		
Construction Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Ingress Protection	IP67	
Casing Metal Dimensions Ø449.50 mm x 342.50 mm (Ø17.70 in. x 13.48 in.) Net Weight 16.0 kg (35.27 lb)	Vandal Resistance	IK10	
Dimensions	Construction		
Net Weight 16.0 kg (35.27 lb)	Casing	Metal	
	Dimensions	ø449.50 mm x 342.50 mm (ø17.70 in. x 13.48 in.)	
Gross Weight 25.0 kg (55.0 lb)	Net Weight	16.0 kg (35.27 lb)	
	Gross Weight	25.0 kg (55.0 lb)	

Intelligence

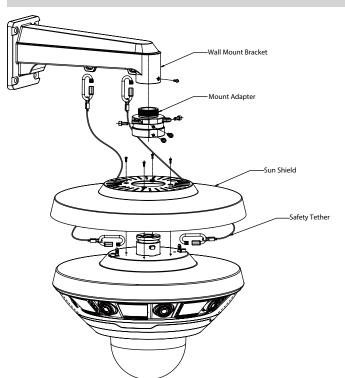
IVS triggers an alarm and takes a defined action for the following events:

Standard Features	 Tampering with the camera. Camera loses or changes focus drastically. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera.
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.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.
Auto-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.

Ordering Information					
Туре	Part Number	Description			
Panoramic + PTZ Camera	DH-PSD81602N-A360	Eight (8) x 2 MP Multi-sensor Panoramic + PTZ Network Camera, WDR, IVS			
		Mount Adapter			
Accessories, Included		Wall Mount Bracket			
	DC36V/4.17A	Power Supply			



Installation



Dimensions (mm/in.)

