

DH-PSD81602-A360

8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera



System Overview

The Dahua PSD81602-A360 Panoramic Multi-Sensor plus PTZ camera combines eight (8) 2MP sensors working in tandem and a high-speed PTZ camera to create a comprehensive 360° view. 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 PSD81602-A360 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 and smart tracking. A camera with IVS quickly and accurately responds to monitoring events in a specific area. The PSD81602-A360 camera can replace multiple single-sensor cameras providing a higher return on investment.

Functions

Panoramic

Panoramic cameras provide 180°, 360° full range of video scene, bringing people a new sense of real live and interactive experience. Dahua provides two kinds of panoramic camera, single sensor fisheye camera and multi-sensor camera, both of them can offer 180-degree & 360-degree panoramic image. Through working together with PTZ camera which offer whole scene and region details at same time. It provided new surveillance experience to end user and improved the surveillance quality.

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.

Starlight Technology

Featured with Dahua Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.

- \cdot Panoramic: Eight 1/1.9" 2Megapixel progressive scan CMOS
- PTZ: One 1/1.9" 2Megapixel progressive scan CMOS
- · H.265/H.264 triple-stream encoding
- · 2x25fps@4096x1800+50/60fps@1080P
- · Support 360-degree panoramic view
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Smart tracking
- \cdot Intelligent Function
- . Micro SD memory, IP67, IK10



HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

Protection (IP67, IK10, wide voltage)

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments. IK10 compliance enables the camera to sustain the equivalent of 55 kg (120lbs) force.

Environmental

Standard Dahua camera can function from-30°C to +60°C(-22 °F to +140 °F) with 95% humility, meanwhile some models support heater module optional which allows the camera to function from-40°Cto +60°C (-40 °F to +140 °F). With a temperature range of-40 °C to +60 °C, the camera is designed for extreme temperature environments.



Technical Specification

recinical 5	pecification				
Panoramic	Camera				
Image Sensor		Eight 1/1.9" 2Megapixel CMOS			
Effective Pixels		2x4096(H)x1800(V)			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.005Lux/F2.2(Color,1/3s,30IRE) 0.03Lux/F2.2(Color,1/30s,30IRE) 0.003Lux/F2.2(B/W,1/3s,30IRE) 0.02Lux/F2.2(B/W,1/30s,30IRE)			
S/N Ratio		More than 50dB			
Panoramic Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		5mm			
Max. Aperture		F2.2			
Angle of View		H: 360°, V:80°			
DON Distance		Detect	Observe	Recognize	Identify
DORI Distance		53m(178ft)	21m(69ft)	10m(33ft)	5m(17ft)
PTZ Camera	a				
Image Sensor		1/1.9" 2Megapixel CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		1024MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1~1/30000s			
Minimum Illumination		0.002Lux/F1.5(Color,1/3s,30IRE) 0.01Lux/F1.5(Color,1/30s,30IRE) 0.001Lux/F1.5(B/W,1/3s,30IRE) 0.008Lux/F1.5(B/W,1/30s,30IRE)			
S/N Ratio		More than 50dB			
PTZ Lens					
Lens Type		Motorized /Auto Iris(HALL)			
Mount Type		Board-in			
Focal Length		5.5mm~206mm			
Max. Aperture		F1.5			
Angle of View		H: 65.8°~2.0°			
Optical Zoom		37x			
Focus Control		Motorized			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	70m(229ft)	28m(92ft)	14m(46ft)	7m(23ft)
	т	2080m (6824ft)	832m (2730ft)	416m (1365ft)	208m (682ft)

PTZ	PTZ				
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°,auto flip 180°			
Manual Control Speed		Pan: 0.1° ~240° /s; Tilt: 0.1° ~120° /s			
Presets		300			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			
Speed Setup		Human-oriented focal Length/ 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)			
Intelligence					
Auto Tracking		Support			
IVS		Tripwire, Intrusion			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capabi	lity	3 Streams			
Resolution	Panoramic Camera	2x4096×1800/2x3840×1680/2x2880×1264/ /2x1920x832/2x1280x560/2x1024X452			
	PTZ Camera	1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ CIF(352×288/352x240)			
	Panoramic Camera	Main Stream: 2x4096x1800(1~25fps)			
		Sub Stream: 2x1024X452 (1 ~ 25/30fps)			
Frame Rate		Third Stream: 2x1920x832 (1 ~ 25/30fps)			
	PTZ Camera	Main Stream: 1080P(1~50/60fps) Sub Stream: D1(1~50/60fps)			
	FIZ Camera	Third Stream: 1080P(1~50/60fps)			
Bit Rate Control		CBR/VBR			
Dit Data	Panoramic Camera	H.265: 2x (14Kbps~ 8192Kbps) H.264: 2x (24Kbps~ 8192Kbps)			
Bit Rate	PTZ Camera	H.265: 4Kbps~ 8192Kbps H.264: 8Kbps~ 7168Kbps			
Day/Night		Auto(ICR) / Color / B/W			
BLC Mode		BLC / HLC / WDR(120dB)			
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		N/A			
Defog		Support(For PTZ Camera only)			
-					

Panoramic Series | DH-PSD81602-A360

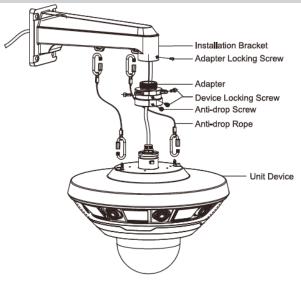
Digital Zoom		16x	
Flip		N/A	
Mirror		N/A	
Privacy Masking	Panoramic Camera	Off / On (4 Area, Rectangle)	
	PTZ Camera	Off / On (24 Area, Rectangle)	
Audio			
Compression		G.711a/G.711Mu/AAC/ G.726	
Network			
Ethernet		RJ-45 (100/1000Base-T) Fiber-FC (100/1000Base-FX) (Optional)	
Protocol		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;ETP;DHCP ;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;80 2.1x;Multicast;ICMP;IGMP;SNMP	
Interoperability		ONVIF, PSIA, CGI	
Streaming Method		Unicast / Multicast	
Max. User Acce	255	10 Users/20 Users	
Edge Storage		NAS Local PC for instant recording Mirco SD card 128GB	
Web Viewer		IE, Chrome, Firefox, Safari	
Management Software		Smart PSS, DSS, Easy4ip	
Smart Phone		IOS, Android	
Certifications			
Certifications		CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface			
Video Interface	2	1 Port(For PTZ Camera only)	
Audio Interface	2	2/1 channel In/Out	
RS485		1 Port	
Alarm		7 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC	
Electrical			
Power Supply		DC36V	
Power Consum		<120W	
Operating Cond	ditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH	
Strorage Condi	tions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH	
Ingress Protection		IP67	
Vandal Resistance		IK10	
Construction			
Casing		Metal	
Dimensions		Φ449.5mm×342.5mm(Φ17.7″×13.48″)	
Net Weight		16kg(35.27lb)	
Gross Weight		25kg(55lb)	

Ordering Information					
Туре	Part Number	Description			
Panoramic+ PTZ camera	DH- PSD81602P-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera, PAL			
	DH- PSD81602N-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera,NTSC			
	PSD81602P-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera, PAL			
	PSD81602N-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera,NTSC			
Accessories (included)	Mount Adapter	Mount Adapter			
	Wall Mount Bracket	Wall Mount Bracket			
	DC36V/4.17A	Power Supply			

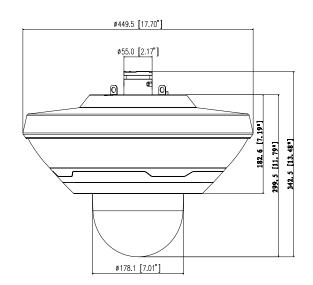


Panoramic Series | DH-PSD81602-A360





Dimensions (mm/inch)





Rev 001.001 © 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.