

# 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.

- · 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
- · 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 Sp	ecification				PTZ			
Panoramic (	Camera				Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°	
Image Sensor		Eight 1/1.9" 2Megapixel CMOS				Manual Control Speed		Pan: 0.1° ~240° /s; Tilt: 0.1° ~120° /s
Effective Pixels		2x4096(H)x1800(V)				Presets Speed		Pan: 600° /s ; Tilt: 400° /s
Scanning Syster	n	Progressive				Presets		300
Electronic Shutt	ter Speed	Auto/Manual, 1/3~1/100000s				PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan
		0.005Lux/F2.2( Color,1/3s,30IRE)				Speed Setup		Human-oriented focal Length/ speed adaptation
Minimum Illumination		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)				Power up Action		Auto restore to previous PTZ and lens status after power failure
S/N Ratio		n 50dB						
Panoramic L	ens					Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Lens Type		Fixed				Protocol		DH-SD, Pelco-P/D (Auto recognition)
Mount Type		Board-in				Intelligence		
Focal Length	Focal Length		5mm					Support
Max. Aperture		F2.2				IVS		Tripwire, Intrusion
Angle of View		H: 360°, V:80°				Video		
		Detect	Observe	Recognize	Identify	Compression		H.265+/H.265/H.264+/H.264
DORI Distance		53m(178ft)	21m(69ft)	10m(33ft)	5m(17ft)	Streaming Capabi	ility	3 Streams
PTZ Camera							Panoramic Camera	2x4096×1800/2x3840×1680/2x2880×1264/ /2x1920x832/2x1280x560/2x1024X452
Image Sensor		1/1.9" 2Megapixel CMOS				Resolution	PTZ Camera	1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ CIF(352x288/352x240)
Effective Pixels		1920(H)x1080	1920(H)x1080(V)					
RAM/ROM		1024MB/128	1024MB/128MB				Panoramic Camera	Main Stream: 2x4096x1800(1~25fps)
Scanning System		Progressive						Sub Stream: 2x1024X452 (1 ~ 25/30fps)
Electronic Shutter Speed		Auto/Manual,	Auto/Manual, 1~1/30000s					Third Stream: 2x1920x832 (1 ~ 25/30fps)
Electronic Shatter Speed		0.002Lux/F1.5( Color,1/3s,30IRE)						Main Stream: 1080P(1~50/60fps)
Minimum Illumi	ination	0.01Lux/F1.5( Color,1/30s,30IRE)					PTZ Camera	Sub Stream: D1(1~50/60fps)
		0.001Lux/F1.5( B/W,1/3s,30IRE) 0.008Lux/F1.5( B/W,1/30s,30IRE)						Third Stream: 1080P(1~50/60fps)
S/N Ratio		More than 50dB				Bit Rate Control		CBR/VBR
PTZ Lens						Bit Rate	Panoramic Camera	H.265: 2x (14Kbps~ 8192Kbps) H.264: 2x (24Kbps~ 8192Kbps)
Lens Type		Motorized /A	Motorized /Auto Iris(HALL)				PTZ Camera	H.265: 4Kbps~ 8192Kbps H.264: 8Kbps~ 7168Kbps
Mount Type		Board-in				Day/Night		Auto(ICR) / Color / B/W
Focal Length		5.5mm~206mm				BLC Mode		BLC / HLC / WDR(120dB)
Max. Aperture		F1.5				White Balance		Auto/Natural/Street Lamp/Outdoor/Manual
Angle of View		H: 65.8°~2.0°				Gain Control		Auto/Manual
Optical Zoom		37x				Noise Reduction		3D DNR
Focus Control		Motorized				Motion Detetion		Off / On (4 Zone, Rectangle)
	Lens	Detect	Observe	Recognize	Identify	Region of Interest	t	Off / On (4 Zone)
DORI Distance	W	70m(229ft)	28m(92ft)	14m(46ft)	7m(23ft)	Electronic Image Stabilization(EIS)		Support(For PTZ Camera only)
	Т	2080m 832m 416m 208m			Smart IR		N/A	
	1	(6824ft) (2730ft) (1365ft) (682ft)				Defog		Support(For PTZ Camera only)



# Panoramic Series | DH-PSD81602-A360

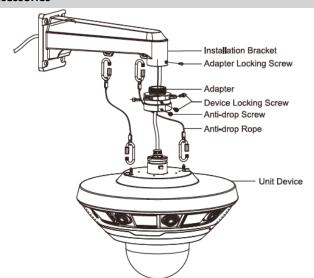
Digital Zoom		16x		
Flip		N/A		
Mirror		N/A		
Privacy	Panoramic Camera	Off / On (4 Area, Rectangle)		
Masking	PTZ Camera	Off / On (24 Area, Rectangle)		
Audio				
Compression		G.711a/G.711Mu/AAC/ G.726		
Network				
Ethernet		RJ-45 (100/1000Base-T) Fiber-FC (100/1000Base-FX) (Optional)		
Protocol		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;80 2.1x;Multicast;ICMP;IGMP;SNMP		
Interoperability	/	ONVIF, PSIA, CGI		
Streaming Met	hod	Unicast / Multicast		
Max. User Acce	ess	10 Users/20 Users		
Edge Storage		NAS Local PC for instant recording Mirco SD card 128GB		
Web Viewer		IE, Chrome, Firefox, Safari		
Management S	oftware	Smart PSS, DSS, Easy4ip		
Smart Phone		IOS, Android		
Certification	าร			
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 Consumption		<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 Protect	ion	IP67		
Vandal Resistar	nce	IK10		
Constructio	n			
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					
	DH- PSD81602P-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera, PAL					
Panoramic+	DH- PSD81602N-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera,NTSC					
PTZ camera	PSD81602P-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera, PAL					
	PSD81602N-A360	8x2MP Multi-Sensor Panoramic Network Camera+PTZ Camera,NTSC					
	Mount Adapter	Mount Adapter					
Accessories (included)	Wall Mount Bracket	Wall Mount Bracket					
	DC36V/4.17A	Power Supply					





# **Accessories**



# Dimensions (mm/inch)

