

# DH-PSDW5231S-B120

2MP Multi-Sensor Network Camera+PTZ Camera



- · Panoramic: 1/2.7" 2Megapixel progressive scan CMOS
- · PTZ: 1/2.7" 2Megapixel progressive scan CMOS
- · H.265/H.264 dual-stream encoding
- · 25fps@1920x1080
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- . Max IR LEDs Length 15m
- . Micro SD card slot, up to 256GB
- . PoE











### System Overview

The Dahua PSDW5231SP-B120 Multi-Sensor plus PTZ camera combines a 2MP camera and a high-speed PTZ camera . With its all-in-one design, the camera provides a 120° monitor and provides region of interest details at the same time. In addition, the PSDW5231SP-B120 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.

#### **Functions**

#### 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.

#### 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.

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. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.



Technical Spe	ecification					PTZ		
Panoramic Camera						Pan/Tilt Range		Pan: 0° ~ 355° endless; Tilt: 0° ~ 80°
Image Sensor		1/2.7" 2Megapixel CMOS				Manual Control S	peed	Pan: 32° ~51° /s; Tilt: 22° ~40° /s
Effective Pixels		1920(H)x1080(V)				Presets Speed		Pan: 51° /s ; Tilt: 40° /s
Scanning System		Progressive				Presets		80
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Speed Setup		Human-oriented focal Length/ speed adaptation
Minimum Illumination		0.03Lux/F2.2( Color,1/3s,30IRE) 0.2Lux/F2.2( Color,1/30s,30IRE) 0.03Lux/F2.2( B/W,1/3s,30IRE) 0.2Lux/F2.2( B/W,1/30s,30IRE)				Power up Action		Auto restore to previous PTZ and lens status after power failure
IR Distance		Distance up to 15m(49ft)				Protocol		DH-SD, Pelco-P/D (Auto recognition)
IR On/Off Control	I	Auto/ Manual				Intelligence	Intelligence	
·		2				IVS		Tripwire, Intrusion
IR LEDs		-				Video		
Panoramic Le	ens					Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)
Lens Type		Fixed				Smart Codec		Support H.265+/H.264+
Mount Type		Board-in	Board-in				lity	2 Streams
Focal Length Aperture Type		2mm Fixed					Panoramic Camera	1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/
Max. Aperture		F2.2	F2.2				PTZ Camera	VGA(640×480)/CIF(352×288/352×240) 1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480)/
Angle of View		H: 136°, V:78°						VGA(640×480)/CIF(352×288/352×240)
DORI Distance		Detect	Observe	Recognize	Identify		Panoramic	Main Stream: 1080P(1~25fps)
DORI DISTAILCE		30m(98ft)	12m(39ft)	6m(20ft)	3m(10ft)	Frame Rate	Camera	Sub Stream: D1(1 ~ 25fps)
PTZ Camera							PTZ Camera	Main Stream: 1080P(1~25fps) Sub Stream: D1(1~25fps)
Image Sensor		1/2 7" 2Mega	1/2.7" 2Magaziyal CMOS					CBR/VBR
			1/2.7" 2Megapixel CMOS				Panoramic	H.265: (16Kbps~ 6144Kbps)
Effective Pixels		1920(H)x1080	1920(H)x1080(V)				Camera	H.264: (32Kbps~ 8192Kbps)
RAM/ROM		1024MB/128MB				Bit Rate	PTZ Camera	H.265: 4Kbps~ 8192Kbps H.264: 8Kbps~ 7168Kbps
Scanning System		Progressive				Day/Night		Auto(ICR) / Color / B/W
Electronic Shutte	r Speed	Auto/Manual, 1~1/3000s				BLC Mode		BLC/HLC/DWDR
Minimum Illumin	ation	0.1Lux/F1.8(	0.02Lux/F1.8( Color,1/3s,30IRE) 0.1Lux/F1.8( Color,1/30s,30IRE)					Auto/Natural/Street Lamp/Outdoor/Manual
Minimum Illumination		0.02Lux/F1.8( B/W,1/3s,30IRE) 0.2Lux/F1.8( B/W,1/30s,30IRE)				Gain Control		Auto/Manual
PTZ Lens								3D DNR
Lens Type		Motorized				Motion Detetion		Off / On (4 Zone, Rectangle)
Mount Type		Board-in				Region of Interest		Off / On (4 Zone)
Focal Length		2.7mm~13.5mm				Electronic Image		N/A
Aperture Type		Auto				Stabilization(EIS)		
Max. Aperture		F1.8				Smart IR		N/A
Angle of View		H: 105.9°~33.3°, V: 56°~18.7°				Defog		N/A
Optical Zoom		5x				, and the second		
	Lens	Detect	Observe	Recognize	Identify			
DORI Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4.5m(15ft)			
Distance	Т	133m	53m	26m	13m			

# Panoramic Series | DH-PSDW5231S-B120

Digital Zoom		16x	
Flip		0°/90°/180°/270°	
Mirror		Support	
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)	
Protocol		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP;D NS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;802.1 x;Multicast;ICMP;IGMP;SNMP	
Interoperability	,	ONVIF Profile T, CGI	
Streaming Method		Unicast / Multicast	
Max. User Acce	SS	10 Users/20 Users	
Edge Storage		NAS Local PC for instant recording Mirco SD card 256GB	
Web Viewer		IE, Chrome, Firefox, Safari	
Management Software		Smart PSS, DSS, DMSS	
Smart Phone		IOS, Android	
Certification	ıs		
Certifications		CE:EN 60950-1 UI:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface			
Video Interface		N/A	
Audio Interface		1/1 channel In/Out	
RS485		1 Port	
Alarm		3 channel In: 5mA 5VDC 2 channel Out: 300mA 12V	
Electrical			
Power Supply		DC12V(±30%), PoE(802.3af)(Class 0)	
Power Consump	ption	DC12V:6.8W 11.8W(IR+PTZ+Zoom) PoE:7.2W 12.7W(IR+PTZ+Zoom)	
Environmen	tal	,	
Operating Conditions		-10° C ~ +50° C (14° F ~ +122° F) / Less than 95% RH	
Strorage Conditions		-10° C ~ +50° C (-14° F ~ +122° F) / Less than 95% RH	
Ingress Protection		N/A	
Vandal Resistan	ice	N/A	
Construction	n		
Casing		Metal+Plastic	
Dimensions		Φ172mm×123.4mm(Φ6.77"×4.86")	
Net Weight		0.71kg(1.57lb)	
Gross Weight		1.06kg(2.33lb)	

Ordering Information					
Туре	Part Number	Description			
	DH- PSDW5231SP-B120	2MP Multi-Sensor Network Camera+PTZ Camera, PAL			
Panoramic+	DH- PSDW5231SN-B120	2MP Multi-Sensor Network Camera+PTZ Camera,NTSC			
PTZ camera	PSDW5231SP-B120	2MP Multi-Sensor Network Camera+PTZ Camera, PAL			
	PSDW5231SN-B120	2MP Multi-Sensor Network Camera+PTZ Camera,NTSC			
	PFA102	Mount Adapter			
Accessories (optional)	PFB300C	Ceiling Mount			
	PFB303W	Wall Mount			

### Accessories

Junction Mount	Ceiling Mount	Wall Mount
	PFB300C+PFA102	PFB303W+PFA102
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## Dimensions (mm/inch)



