

4 x 5MP Multi-Flex Network Camera

Multi-directional IR Dome with Four (4) 2.8 mm to 12 mm Motorized Zoom Lenses





WizMind Series devices offer Dahua Analytics+ functions for comprehensive, human-oriented analytic solutions. WizMind Series products are ideal for complex applications with demanding requirements that need advanced analytic capabilities.

System Overview

The Dahua DH-IPC-PDBW82041-B360-S2 Flexible Multi-sensor Dome Camera features four (4) 1/2.7-in. 5MP Progressive-scan CMOS sensors each with a 2.8 to 12 mm motorized lens. Each sensor can be positioned and configured independently of the others allowing flexible, multi-directional video surveillance that replaces multiple single-sensor cameras and is ideal for monitoring large areas. The camera offers a True Day/Night IR Cut filter, IP67 Ingress protection and operation in extreme temperatures to deliver superior images in all lighting and environmental conditions.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

FlexStream Technology¹

The camera offers FlexStream technology that displays simultaneous video from each sensor in a single channel, streams viewed in the first channel simultaneously. That is, the multiple images can be displayed in one channel.

Face Detection

The camera detects and captures a snapshot of human face in a defined area within a scene. This technology supports detecting, tracking, capturing and selecting the best face image, and then outputs a face snapshot.

Starlight Technology

For challenging low-light applications, Dahua's Starlight low light Technology offers best-in-class light sensitivity, capturing details in low light applications. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

- Four (4) Independent 1/2.7-in 5 MP CMOS Sensors
- Flexible Multi-directional IR Dome with four (4) 2.8 mm to 12 mm Motorized Zoom Lenses
- Triple-stream Encoding per Channel
- Smart H.265+ and Smart H.264+ Dual Codec
- 5MP at 30 fps Maximum Resolution per Sensor
- FlexStream Consolidates Video from All Channels into a Single Stream
- Analytics+ Functions Perimeter Protection, People Counting and Face Detection
- Starlight Technology for Low Light Sensitivity

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for 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 offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Technical	Specificatio	n				Flip		0°, 90°, 180°, 270° (Supports 90°/270° with 1080p resolution or lower
Camera						Mirror		Off, On
Image Sensor		Four (4) 1/2.7-in. 5MP CMOS			Privacy Maskin	g	Off, On (8 Area, Rectangle)	
Effective Pixels		2592 (H) x 1944 (V), per sensor					5	, (
RAM/ROM		4 GB/8 GB			Audio	Audio		
Scanning System		Progressive				Compression		PCM,G.711a, G.711Mu, G.726, G.723, AAC
Electronic Shutter Speed		Auto, Manual; 1/3 s to 1/100000 s				Network	Network	
Minimum Illumination		Color: 0.005 lux at F1.7 0 lux at F1.7 (IR on)				Ethernet		RJ-45 (10/100/1000 T-Base)
S/N Ratio		> 56 dB				Protocol		IPv4, IPv6, HTTP, TCP, ARP, RTSP, RTP, RTCP, UDP, SMTP, RTMP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, SAMBA, PPP0E, SNMP
IR Distance		Distance up to 30.0 m (98.43 ft)						
IR On/Off Control		Auto, Manual				Interoperability	/	ONVIF (Profile S, T, G), CGI
IR LEDs		Eight (8) total LEDs; Two (2) LEDs per sensor				Streaming Met	hod	Unicast/Multicast
Lens						Maximum User Access		20 Users
Lens Type		Motorized				Edge Storage		MicroSD Card Slot (256 GB Maximum)
Mount Type		ф 14				Web Viewer		IE 9 and later, Chrome 42 and later
Focal Length		2.8 mm to 12 mm				Management Software		DSS, DMSS
Maximum Ap	erture	F1.7				Mobile Operati	ng System	iOS, Android
Field of View Focus Control Close Focus Distance		Horizontal: 100° to 42° Vertical: 74° to 32° Diagonal: 133° to 53° Motorized 0.80 m (2.60 ft)				Cybersecurity		Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generatir and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
	Lens	Detect	Observe	Recognize	Identify			орычас
DORI ² Distance	Wide	66.0 m	26.40 m	13.20 m	6.60 m	Certification Safety	1S	UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
	Tele	(216.50 ft) 140.40 m (460.60 ft)	(86.60 ft) 56.10 m (184.10 ft)	(43.30 ft) 28.80 m (94.49 ft)	(21.70 ft) 14.0 m (45.90 ft)	Electromagneti	c Compatibility	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/
Don/Til+/D	ototion	(400.0011)	(104.1011)	(54.45 10)	(43.3010)	, ,		EU, EN62368-1
Pan/Tilt/R	otation					Interface		
Range		Pan: 0° to 360° Tilt: 0° to 75° Rotation: 0° to 355°				Audio		Input: One (1) Channel, RCA Output: One (1) Channel, RCA
Video		Notation. 0 to 333				RS-485		One (1) Port (baud rate range: 1200 bps–115200 bps)
Compression		Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)				Alarm		Input: Three (3) Channels (5 mA, 3 VDC to 5 VDC) Output: Two (2) Channels (300 mA, 12 V)
Streaming Ca	pability	Three (3) Streams per sensor				Electrical		
	Individual Streams	5MP (2592 x 1944), 4MP (2560 x 1440), 3MP (2048 x 1536), 2304 x 1296, 2MP (1920 x 1080), 1.3MP (1280 x 960), 720p (1280 x 720), VGA (640 x 480), D1 (704 x						12 VDC D 5 / (002 2 1)
						Power Supply		12 VDC, PoE+ (802.3at)
Resolution		480), CIF (352 x 240)		Power	Basic	12 VDC: 7.4 W PoE+: 9.3 W		
	FlexStream ¹	8MP (3296 x 2472), 5MP (2592 x 1944), 1600 x 1200, 2MP (1920 x 1080), 1.3MP (1280 x 960),D1 (704 x 480), CIF (352 x 240)				Consumption	Maximum	12 VDC: 21.3 W PoE+: 24.7 W
	Individual		: 5MP at 30 fp L: D1 at 30 fps	S		Environmer	ntal	
Frame Rate	Streams		2: 2MP at 30 fp			Operating Conditions		-30° C to +60° C (-22° F to +140° F) Less than 95% RH
	FlexStream ¹	Main Stream: 1600 x 1200 at 30 fps Sub Stream 1: D1 at 30 fps				Storage Conditions		-30° C to +60° C (-22° F to +140° F)
Dit Data Control		Sub Stream 2: 8MP at 30 fps				Protection	Protection IP67, IK10	
Bit Rate Control Bit Rate		CBR/VBR H.264: 32 Kbps to 17152 Kbps				Constructio	n	
Day/Night		H.265: 12 Kbps to 10240 Kbps				Casing		Metal and Plastic
Day/Night		Auto (ICR), Color, B/W				Dimensions		ø286.10 mm x 111.30 mm (ø11.26 in. x 4.38 in.)
Backlight		BLC, HLC, DWDR				Net Weight		2.75 kg (6.06 lb)
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom						
Gain Control		Auto, Manual						
Noise Reduction		3D DNR						
	ction	Off. On (4 7o)	nes, Rectangle)		1 The FleuCtreen shape	el connects to a Dahua N	VR via an RTSP string. If the FlexStream feed is the only channel added only

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.

Analytics+ Functions

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Perimeter Protection	Detects human or vehicle violations using the following methods: Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter. Monitors a combination of detection methods. Search and retrieve video based on target type
Face Detection	Detects faces from the video image. Supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.
Advanced People Counting	Delivers accurate flow statistics from the following methods: Line Crossing: counts a person as they cross a threshold in a defined direction. Region: counts the number of people in a defined area. Produces daily, monthly, and annual reports for both methods.
Queue Management	Monitors four (4) user-defined regions where people wait in line (or queue). Issues an alarm for the following triggers: People in Line: the number of people in line exceeds a minimum threshold. Wait Time: time a person waits in line is greater

Intelligent Video System

Loitering Detection

IVS triggers an alarm and takes a defined action for the following events: Tampering with the camera. · Error writing to an onboard Micro SD card. Standard Features Error sending or receiving data over the network. Unauthorized access to the camera Premium Features A target leaves an object in designated area, or a Abandoned/Missing Object target removes an object from the same designated Target exceeds a set speed when exiting a defined Fast Moving Vehicle remains in a defined area without motion for Parking Detection a set period of time Specified number of people remain inside a defined **Crowd Gathering** area for a set time Target is in motion inside a defined area longer than

a specified amount of time

than the minimum queue time.

Ordering Information							
Туре	Part Number	Description					
Panoramic Camera	DH-IPC-PDBW82041- B360-S2	4 x 5 MP Multi-sensor IR Dome Network Camera					
	PFA108	Mount Adapter					
	PFA111	Mount Adapter					
	PFA120	Junction Box (use with PFB303W)					
	PFA150	Pole Mount (Use with PFA108, PFA111, PFA120, and PFB303W)					
Accessories,	PFA151	Corner Mount (Use with PFA108, PFA111, PFA120, and PFB303W)					
optional	PFB300C	Ceiling Mount (Use with PFA108 and/or PFA111)					
	PFB303S	Parapet Mount (Use with PFA108 and or PFAA111)					
	PFB303W	Wall Mount Bracket (Use with PFA108 and PFA111)					
	DH-PFM320D-US	12 VDC, 2 A Power Adapter					

Accessories (Optional)



PFA108 Mount Adapter







Junction Box



PFA151 Corner Mount

PFB300C Ceiling Mount



PFA111

Mount Adapter

PFB303W Wall Mount

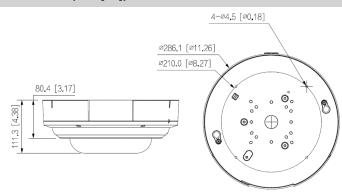
DH-PFM320D-US Power Adapter



PFB303S Parapet Mount

Ceiling Mount	Ceiling Mount	Wall Mount
PFA108	PFB300C + PFA108 + PFA111	PFB303W + PFA108 + PFA111
Pole Mount(Horizontal)	Pole Mount(Vertical)	Corner Mount
PFA108 + PFA111 + PFB300C+ PFA150	PFA108 + PFA111 + PFB303W + PFA150	PFA108 + PFA111 + PFB303W + PFA151

Dimensions (mm [in.])



Mounting Diagram

