

Multi-sensor Panoramic Dome Camera

4 x 2 MP Multi-sensor Panoramic Network IR Dome Camera





Wiz Mind

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 multi-sensor camera provides added flexibility for capturing wide area video security. With four (4) 2MP sensors working in tandem to create a comprehensive 180° overview, the camera can replace multiple single-sensor cameras providing a higher return on investment. The multi-sensor camera features contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most challenging lighting conditions. Plus, with IP67 and IK10 ratings, the camera is ready for any application.

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

Crowd and Vehicle Density

The multi-sensor camera offers advanced crowd and vehicle counting functions to send alerts when the number of people or vehicles in a defined area exceed a set threshold. These functions are useful to determine if a crowd is getting too large, if traffic congestion is increasing, and it a parking lot is reaching capacity.

- Four (4) 1/2.8-in. 2 MP Progressive Scan CMOS Imagers
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- Maximum Resolution: 4096 x 1800 at 30 fps
- Starlight Technology for Ultra-low Light Sensitivity
- Crowd and Vehicle Density
- Maximum IR LED Distance 30 m (98 ft)
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty*



ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as -40° F (-40° C) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

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.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high-performance in extreme low-light environments up to 30 m (98 ft).

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

The camera complies with the 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 Specification

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Day/Night

BLC Mode

Camera				
Image Sensor	Image Sensor		Four (4) 1/2.8-in. 2MP CMOS Sensors	
Effective Pixels		4096(H) x 1800(V)		
RAM/ROM		2 GB / 4 GB		
Scanning System		Progre	ssive	
Electronic Shutter S	speed	Auto, Manual: 1/3 s to 1/100,000 s		
Minimum Illumination		Color: 0.002 lux at F1.6 0 lux at F1.6 with IR on		
S/N Ratio		More t	han 56 dB	
IR Distance		Up to 3	30.0 m (98.43 ft)	
IR On/Off Control		Auto, I	Manual	
IR LEDs		Six (6)		
Lens				
Lens Type		Fixed-f	ocal	
Mount Type		M12		
Focal Length		2.8 mr	n	
Max. Aperture		F1.6		
Angle of View			Horizontal: 180° Vertical: 90°	
Focus Control	Control Fixe		Fixed	
Close Focus Distance		0.60 m (23.62 in.)		
DORI Distance ¹				
Detect (8 ppf)	Observe (19	9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
38.60 m (126.60 ft)	15.40 m (50	.50 ft)	7.70 m (25.30 ft)	3.90 m (12.80 ft)
Pan/Tilt/Rotati	on			
Range Tilt: 0		Tilt: 0°	to 355° to 75° on: ±20°	
Video				
Compression			H.265+, H.265, Smart H 3, MJPEG (sub stream of	
Streaming Capability Three		Three (3) Streams		
Recollition		4096 x 1800, 3840 x 1680, 2880 x 1264, 1920 x 832, 1280 x 560, 1024 x 452		
Frame Rate		Main Stream: 4096 x 1800 at 30 fps		
		Sub Stream 1: 1024 x 452 at 30 fps		
		Sub Stream 2: 1920 x 832 at 30 fps		
Bit Rate Control		CBR, VBR		
Bit Rate		H.265: 9 Kbps to 17664 Kbps H 264: 24 Kbps to 17664 Kbps		

White BalanceAuto, Natural, Street Lamp, Outdoor, Manual, Regional CustomGain ControlAuto, Gain Priority, Shutter Priority, ManualNoise Reduction0ff, On (4 Zone, Rectangle)Region of InterestOff, On (4 Zone, Rectangle)Advanced FeaturesSmart Illumination, DefogDigital ZoomIoxPrivacy MaskingOff, On (4 Area, Rectangle)AudioFeaturesCompressionPCM, G. 711a, G. 711Mu, G. 726, G. 723NetWorkReformation (1997)ProtocolR. 4.45 (10/100/1000 Base-T)ProtocolR. 4.45 (10/100/1000 Base-T)ProtocolRoll, G. 711a, G. 711Mu, G. 726, G. 723NetworkStreaming MethodUncast, Multicast, LOMP, SMP, FTP, DHCP, DNS, DDNS, DNSD, SMP, FDP, LIPA/MC, GoS, UPMP, NTP, DHCP, DNS, DDNS, DNSD, SMP, GAS, UPMP, NTP, ProtocolStreaming MethodUncast, MulticastMaximum User Access20 Users (Total Bandwidth: 80 Mbps)Edge StorageEl Version 9 and later Chrome version 50 and later Chrome version 50 and later Chrome version 50 and later Chrome version 50 and laterAdagement SoftwareDSS, NASCMobile Operating SystemUS 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (Energione, Barden, CAN Subge, IPMARC, BIC, Cannels (20 VDC, 1A; SO VAC, SO, SOAdainInput: Tone (2) Channels (20 VDC to SVOC, 5 MA) Output: Two (2) Channels (20 VDC, 1A; SO VAC, SO, SOAdainInput: Tone (2) Channels (20 VDC, 1A; SO VAC, SO, SOAdainInput: Tone (2) Channels (20 VDC, 1A; SO VAC, SO, SOAd		
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Maximum User Access20 Users (Total Bandwidth: 80 Mbps)Edge StorageNetwork Attached Storage (NAS), FTP, SFTP, Micro SD Card, maximum 128 GBWeb ViewerIE Version 9 and later Firefox version 50 and later Chrome version 48 and laterManagement SoftwareDSS, DMSSMobile Operating SystemIOS, AndroidCybersecurityVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)One (1) Port, BNC (use for adjustment only)InterfaceInput: One (1) Channel, RCA Output: One (1) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)S485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalYou (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)Power Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 WEnvironmentalOutput: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)Operating Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RH	Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, P2P
Edge StorageNetwork Attached Storage (NAS), FTP, SFTP, Micro SD Card, maximum 128 GBWeb Viewerli Eversion 9 and later Firefox version S0 and later Chrome version 48 and laterManagement SoftwareDSS, DMSSMobile Operating SystemIOS, AndroidVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X:509 Certification, Syslog, HTTPS, 802.1X, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsFN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)87 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterface100 (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCA Output: Two (2) Channels (3 VDC to 5 VDC, 5 MA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 05 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalPower SupplyPower Consumption<14.9 W	Streaming Method	Unicast, Multicast
Edge StorageMicro SD Card, maximum 128 GBWeb ViewerIE version 9 and later Firefox version 50 and later Chrome version 48 and laterManagement SoftwareDSS, DMSSMobile Operating SystemIOS, AndroidCybersecurityVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterfaceInput: One (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 05 A)R5485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalInput: Two (2) Channels (30 VDC, 1 A; 50 VAC, 05 A)Power Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 W	Maximum User Access	20 Users (Total Bandwidth: 80 Mbps)
Web ViewerFirefox version 50 and later Chrome version 48 and laterManagement SoftwareDSS, DMSSMobile Operating SystemIOS, AndroidKybersecurityVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X:509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)Electromagnetic Compatibility DirectiveInterfaceVideoVideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalVPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption-41.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Edge Storage	
Mobile Operating SystemIOS, AndroidVideo Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Lockout, Security Soog, IP/MAC Filtering, Generating and Importing Soog Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterfaceInterfaceVideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)ElectricalPower SupplyPower Consumption< 14.9 W	Web Viewer	Firefox version 50 and later
Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveNideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)ElectricalPower SupplyPower Consumption<14.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RH Ingress ProtectionIngress ProtectionIP67	Management Software	DSS, DMSS
CybersecurityEncryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted UpgradeCertificationsEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07SafetyEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)Arr CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterfaceInterfaceVideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCA Output: Two (2) Channels (30 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 05 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalPower SupplyPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Mobile Operating System	IOS, Android
SafetyEN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterface70 cm (1) Port, BNC (use for adjustment only)AudioOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)Electrical70 cuput: 12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67		Video Enoruption Firmwore Enoruption Configuration
SafetyUL 60950-1 CAN/CSA C22.2 No.60950-1-07Electromagnetic Compatibility (EMC)47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility DirectiveInterfaceVideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 W	Cybersecurity	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted
Compatibility (EMC)Electromagnetic Compatibility DirectiveInterfaceVideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps–115200 bps)ElectricalPower SupplyPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption<14.9 W		Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted
VideoOne (1) Port, BNC (use for adjustment only)AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalInput: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)Power Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption< 14.9 W	Certifications	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1
AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps-115200 bps)ElectricalPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption< 14.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B
AudioInput: One (1) Channel, RCA Output: One (1) Channel, RCAAlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps–115200 bps)ElectricalPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption< 14.9 WEnvironmental-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic Compatibility (EMC)	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B
AlarmInput: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)RS485One (1) Port (baud rate range: 1200 bps–115200 bps)ElectricalImput: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)Power Supply12 VDC, 24 VAC, or PoE+ (802.3 at Class 4)Power Consumption< 14.9 WEnvironmentalImput: Two (2) Chancels C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic Compatibility (EMC) Interface	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive
RS485One (1) Port (baud rate range: 1200 bps–115200 bps)ElectricalPower Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption< 14.9 W	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA
Electrical Power Supply 12 VDC, 24 VAC, or PoE+ (802.3at Class 4) Power Consumption <14.9 W	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA)
Power Supply12 VDC, 24 VAC, or PoE+ (802.3at Class 4)Power Consumption< 14.9 WEnvironmentalOperating Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)
Power Consumption < 14.9 W	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio Alarm RS485	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)
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	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio Alarm RS485 Electrical	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps)
Operating Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHStorage Conditions-40° C to +60° C (-40° F to +140° F), Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio Alarm RS485 Electrical Power Supply	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4)
Storage Conditions-40° C to +60° C (-40° F to +140° F),Less than 95% RHIngress ProtectionIP67	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio Alarm RS485 Electrical Power Supply Power Consumption	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4)
Ingress Protection IP67	Certifications Safety Electromagnetic Compatibility (EMC) Interface Video Audio Alarm Alarm RS485 Electrical Power Supply Power Consumption Environmental	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Input: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4) < 14.9 W
	Certifications Safety Electromagnetic Compatibility (EMC) Interface Nideo Audio Audio Alarm RS485 Electrical Power Supply Power Consumption Environmental Operating Conditions	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4) < 14.9 W
	Certifications Safety Safety Electromagnetic Compatibility (EMC) Interface Interface Audio Audio Audio Alarm RS485 Electrical Power Supply Power Consumption Environmental Operating Conditions	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4) < 14.9 W -40° C to +60° C (-40° F to +140° F), Less than 95% RH
	Certifications Safety Safety Electromagnetic Compatibility (EMC) Interface Interface Audio Audio Audio Alarm Alarm Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions	Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade EN 62368-1 UL 60950-1 CAN/CSA C22.2 No.60950-1-07 47 CFR FCC Part 15 Subpart B Electromagnetic Compatibility Directive One (1) Port, BNC (use for adjustment only) Input: One (1) Channel, RCA Output: One (1) Channel, RCA Output: Two (2) Channels (3 VDC to 5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A) One (1) Port (baud rate range: 1200 bps–115200 bps) 12 VDC, 24 VAC, or PoE+ (802.3at Class 4) < 14.9 W -40° C to +60° C (-40° F to +140° F), Less than 95% RH -40° C to +60° C (-40° F to +140° F), Less than 95% RH

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 according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

BLC, HLC, DWDR

H.264: 24 Kbps to 17664 Kbps

Auto (ICR), Color, B/W

Ultra Series | DH-IPC-PDBW8840N-A180

Construction

Casing	Metal and Plastic	
Dimensions	ø212.0 mm x 169.50 mm (ø8.35 in. x 6.67 in.)	
Net Weight	3.65 kg (8.05 lb)	
Gross Weight	4.37 kg (9.63 lb)	
Analytics+ Functions		
Crowd Density ²	 Detects crowd density and displays it on a heat map, Triggers an alarm when the crowd quantity or density exceeds a set threshold in selected area. Detects up to 1024 people Apply to eight (8) regions Detection radius up to 30 m (98.43 ft) 	
Vehicle Density ²	 Analyses the scene for the number of vehicles and vehicle congestion selected lanes. Offers Traffic Congestion and Upper Parking Limit functions Minimum pixel requirement: ≥ 80 pixels Apply to 16 regions Detection radius up to 80 m (262.47 ft) 	

The Crowd Density and Vehicle Density functions are available on the camera, however the functions have not been fully tested with Dahua NVRs and with the DSS and IVSS video management software.

Intelligent Video System Functions

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

Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. IP Address Conflict
Premium Features	
Tripwire	A target crosses a user-defined line.

Intrusion A target enters or exits a defined perimeter.

Installation Recommendations – Crowd Density

Height m (in.)	Detection Angle	Blind Spot m (in.)	Maximum Detection Length m (in.)
6.0 m	30°	2.50 (98.43)	7.0 (275.60)
(236.22)	45°	0.70 (27.56)	7.0 (275.60)
10.0 m	30°	4.0 (157.48)	14.0 (551.18)
(393.70)	45°	1.30 (51.18)	14.0 (551.18)
15.0 m	30°	6.20 (244.09)	9.0 (354.33)
(590.55)	45°	2.0 (78.74)	9.0 (354.33)

Installation Recommendations - Vehicle Density

Height m (in.)	Detection Angle	Blind Spot m (in.)	Maximum Detection Length m (in.)
30.0 m	30°	12.0 (472.44))	25.0 (984.25)
(1181.10)	45°	4.0 (157.48)	25.0 (984.25)
35.0 m	30°	14.0 (551.18)	17.0 (669.29)
(1377.95)	45°	4.0 (157.48)	17.0 (669.29)

Ordering Information		
Туре	Part Number	Description
4 x 2MP Camera	DH-IPC-PDBW8840N-A180	Four (4) x 2MP Multi-sensor Panoramic Network IR Dome Camera
Accessories, Included	PFA111	Mount Adapter
	DH-PFA120-SG	Junction Box, silver (use with DH-PFB303W-SG wall mount)
	DH-PFA150-SG	Pole Mount, silver (use with DH-PFB303W-SG wall mount)
Accessories, optional	DH-PFB300C-SG	Ceiling Mount, silver (use with PFA111 mount adapter)
	DH-PFB303W-SG	Wall Mount, silver (use with PFA111 mount adapter)
	DH-PFM320D-US	12 VDC, 2 A Power Adapter

Accessories



PFA111 Mount Adapter

Optional:





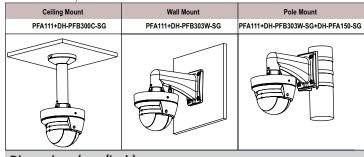
Pole Mount





Junction Box

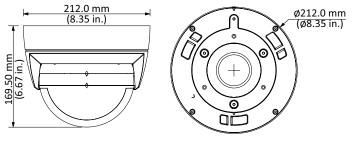




DH-PFB300C-SG

Ceiling Mount

Dimensions (mm/inch)





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