

2MP Motorized Network Dome Camera

2MP Starlight IR Network Dome Camera



System Overview

The Dahua 2 MP Ultra Series cameras offer high-resolution video and cutting-edge technology in a compact and accessible package. The cameras feature Smart H.265+ video compression, reducing bandwidth and storage requirements without sacrificing video quality. For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low-light environments. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color 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.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

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 detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

- 1/1.9-in. 2MP STARVIS™ CMOS Sensor
- · Triple-stream Encoding
- Smart H.265+ and H.264 Dual Codec
- Starlight Technology for Ultra-low Light Sensitivity
- 1080p at 60 fps Maximum Resolution
- 4.1 mm to 16.4 mm Motorized Optical Zoom Lens
- True Wide Dynamic Range (120 dB) and True Day/Night (ICR)
- Maximum IR LED Distance 50 m (164 ft)
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Intelligent Video System
- Five-year Warranty*















Intelligent Business Analysis

The built-in IVS features people counting and heat map functionality, advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of activity. People Counting and Heat Maps can identify the most active areas of a retail space providing valuable data analysis for commercial applications.

Smart Scene Adaptive (SSA) Technology

Smart Scene Adaptive (SSA) is an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components, a waterproof enclosure, and an integrated heater to ensure flawless operation in temperatures as low as –40° C (–40° F). 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.

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.



Camera						
Image Sensor		1/1.9-in. 2 MF	STARVIS™ CMC	os		
Effective Pixels		1/1.9-in. 2 MP STARVIS™ CMOS 1920(H) x 1080(V), 2 MP				
RAM/ROM	C13					
·			1024 MB / 128 MB			
Scanning Sys		Progressive				
Electronic Shutter Speed Minimum Illumination		Auto, Manual; 1/3 s to 1/100,000 s Color: 0.002 lux at F1.53 (1/3 s, 30 IRE) Color: 0.01 lux at F1.53 (1/30 s, 30 IRE) 0 lux at F1.53 (with IR on)				
S/N Ratio			More than 50 dB			
IR Distance		Distance up to	Distance up to 50.0 m (164.04 ft)			
IR On/Off Co	entrol	Auto, Manual				
IR LEDs		Four (4)				
Lens						
		Motorized Au	ito Iris (HALL)			
Lens Type		Motorized, Auto Iris (HALL) Board-in				
Mount Type						
Focal Length Max. Apertu		4.1 mm to 16.4 mm F1.53				
Angle of View		Horizontal: 92° to 32°				
_		Vertical: 53° to 18°				
Optical Zoom Focus Control		4x Motorized Auto-focus				
Close Focus		1.0 m (3.28 ft)				
DON	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	
DORI Distance ¹	Wide	57 m (187 ft)	23 m (75 ft)	11 m (36 ft)	6 m (20 ft)	
	Telephoto	137 m (449 ft)	55 m (180 ft)	27 m (89 ft)	14 m (49 ft)	
Pan/Tilt/F	Rotation					
Range		Pan: 0° to 355 Tilt: 0° to 65°; Rotation: 0° to				
Video						
Compression	1	Smart H.265+, H.265, Smart H.264+, H.264				
Streaming Capability		Three (3) Streams				
Resolution		1080p (1920 x 1080), SXGA (1280 x 1024), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)				
		Main Stream: 1080p at 60 fps				
	Frame Rate		Sub Stream: D1 at 60 fps			
Frame Rate			Sub Stream 2: 1080p at 60 fps			
Frame Rate		Sub Stream 2:	1080p at 60 fps			
Frame Rate Bit Rate Con	trol	Sub Stream 2: CBR/VBR	1080p at 60 fps			

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.

Day/Night	Auto (ICR), Color, B/W
BLC Mode	BLC, HLC, True WDR (120 dB), SSA
White Balance	Auto, Natural, Street Lamp, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	3D DNR
Motion Detection	Off, On (4 Zone, Rectangle)
Region of Interest	Off, On (4 Zone)
Advanced Features	Electronic Image Stabilization (EIS), Smart IR, Defog
Digital Zoom	16x
Flip	0°, 90°, 180°, 270°
Mirror	Off, On
Privacy Masking	Off, On (4 Area, Rectangle)
Audio	
Compression	G.711a, G.711Mu, AAC, G.726
Network	
Ethernet	RJ-45 (100/1000 Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast, Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	NAS (Network Attached Storage) Local PC for Instant Recording Micro SD Card, maximum 128 GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	IOS, Android
Certifications	
Safety	UL60950-1
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B
Interface	
Video	One (1) CVBS Output Port (for installation adjustment only)
Audio	Input: One (1) Channel Output: One (1) Channel
Alarm	Input: Two (2) Channels (5 mA, 5 VDC) Output: One (1) Channel (1 A, 30 VDC; 0.5 A, 50 VAC)
Electrical	
Power Supply	12 VDC, 24 VAC or PoE+ (802.3at, Class 4)
Power Consumption	<18 W

Environmental

Operating Temperature	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
Storage Temperature	-40° C to +60° C (-40° F to +140° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ø159.10 mm x 117.90 mm (ø6.26 in. x 4.64 in.)
Net Weight	0.96 kg (2.12 lb)
Gross Weight	1.75 kg (3.56 lb)

Intelligence

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. 	
Premium Features		
Motion	An object moves through any part of the scene.	
Tripwire	A target crosses a user-defined line.	
Intrusion	A target enters or exits a defined perimeter.	
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.	
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.	
Advanced Features		
Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.	
People Counting	Measure the number of customers, visitors or passengers in a surveillance scene	

in a surveillance scene.

Generates a visual representation of activity.

Ordering Information

Heat Map

Туре	Part Number	Description
2 MP Camera	N28BL7Z	2 MP Starlight IR Dome Network Camera, Built-in Heater, IVS
Accessories, included	PFA138	Junction Box
	PFA101	Mount Adapter
	PFA152-E	Pole Mount
	PFB201C	In-ceiling Mount
Accessories, optional	PFB300C	Ceiling Mount
	PFB302S	Wall Mount
	PFM320	12 VDC, 2 A Power Adapter
	PC-H59-D113.6	Polycarbonate Smoke Tinted Bubble (for Vari-focal Domes)

Accessories

Included:



PFA138 Junction Box

Optional:







Mount Adapter

PFA152-E Pole Mount

PFB302S Wall Mount





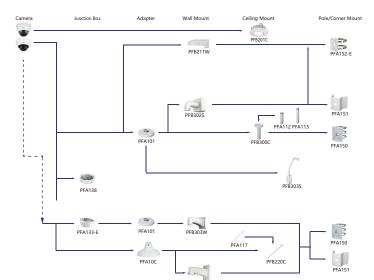




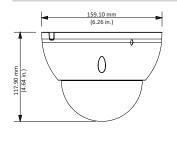
PFB201C In-ceiling Mount

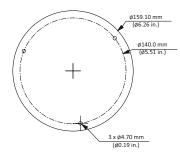
PFB300C Ceiling Mount

PFM320 Power Adapter



Dimensions (mm/in.)







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