

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.

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						Day/Night	
imera					BLC Mode		
Image Sensor		1/1.9-in. 2 MP STARVIS™ CMOS			White Balance		
Effective Pixels		1920(H) x 1080(V), 2 MP				Gain Control	
AM/ROM		1024 MB / 128 MB				Noise Reduction	
-	stem	Progressive				Motion Detection	
Scanning System Floatronic Shutter Speed		Auto, Manual; 1/3 s to 1/100,000 s			Region of Interest		
Electronic Shutter Speed		Color: 0.002 lux at F1.53 (1/3 s, 30 IRE)				-	
Minimum Illumination		Color: 0.01 lux at F1.53 (1/30 s, 30 IRE) 0 lux at F1.53 (with IR on)				Advanced Features	
S/N Ratio		More than 50 dB				Digital Zoom	
		Distance up to 50.0 m (164.04 ft)				Flip	
R Distance			30.0 111 (104.04	11)	Mirror		
R On/Off Co	ontrol	Auto, Manual				Privacy Masking	
R LEDs		Four (4)				Audio	
_ens						Compression	
ens Type		Motorized, Au	to Iris (HALL)			Network	
Mount Type		Board-in				Ethernet	
Focal Length Max. Aperture		4.1 mm to 16.	4.1 mm to 16.4 mm F1.53			Protocol	
Angle of Vie	w	Horizontal: 92° to 32° Vertical: 53° to 18°				Interoperability	
optical Zoor	m	4x	7 10			Streaming Method	
Focus Control		Motorized Aut	o-focus			Max. User Access	
Close Focus	Distance	1.0 m (3.28 ft)			Identify	Edge Storage	
	Lens	Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Web Viewer	
OORI Distance ¹	Wide	57 m (187 ft)	23 m (75 ft)	11 m (36 ft)	6 m (20 ft)	Management Software	
	Telephoto	137 m (449 ft)	55 m (180 ft)	27 m (89 ft)	14 m (49 ft)	Mobile Operating System	
Pan/Tilt/Rotation		Pan: 0° to 355°; Tilt: 0° to 65°; Rotation: 0° to 355°				Cybersecurity	
/ideo						Certifications	
Compression		Smart H.265+, H.265, Smart H.264+, H.264				Safety	
Streaming Capability		Three (3) Streams				Electromagnetic Compatibility (EMC)	
Streaming Capability		1080p (1920 x 1080), SXGA (1280 x 1024),				Interface	
Resolution		1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)				Video	
Frame Rate		Main Stream: 1080p at 60 fps				Audio	
		Sub Stream: D1 at 60 fps Sub Stream 2: 1080p at 60 fps					
	DU D		TOROD at 60 lbs		Alarm		
ii. D. : 0	tural.	CDD / IDC					
Bit Rate Con	ntrol	CBR/VBR	s to 10240 Kbps			Electrical	

 $^{1. \ \, \}text{The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the}$ 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.

Power Consumption

<18 W

Environmental

Operating Temperature	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ 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:

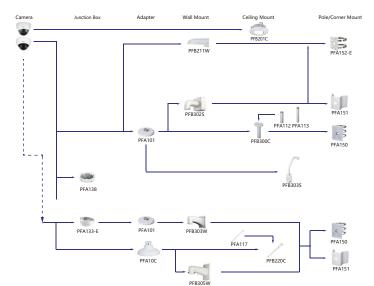


PFB201C In-ceiling Mount

PFB300C Ceiling Mount



PFM320 Power Adapter



Dimensions (mm/in.)

