

2MP Motorized Network Bullet Camera

2MP Starlight IR Network Bullet 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.



Technica	l Specificat	ion				Day/Night
Camera			BLC Mode			
Image Sens	or	1/1.9-in. 2 MF	STARVIS™ CMC)S		White Balance
Effective Pix	cels	1920(H) x 108	0(V), 2 MP			Gain Control
RAM/ROM		1024 MB / 123	3 МВ			Noise Reduction
Scanning Sy	stem	Progressive				Motion Detection
Electronic S	hutter Speed	Auto, Manual,	1/3 s to 1/100,0	000 s		Region of Interest
Minimum II	umination	Color: 0.01 lux	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)			Advanced Features
S/N Ratio		More than 50	dB			Digital Zoom
IR Distance		Distance up to	Distance up to 50.0 m (164.04 ft)			Flip
IR On/Off C	ontrol	Auto, Manual				Mirror
IR LEDs				Privacy Masking		
Lens		()	10di (+)			Audio
Lens Type		Motorized Au	Materized Auto Fig (HALL)			Compression
Mount Type		Board-in	Motorized, Auto Iris (HALL)			Network
			4 mm			Ethernet
Focal Length			4.1 mm to 16.4 mm			
Max. Aperture		F1.53 Horizontal: 80° to 32°			Protocol	
Angle of View		Vertical: 47° to 18°			Interoperability	
Optical Zoo		4x				Streaming Method
Focus Control		Motorized Auto-focus 0.50 m (1.64 ft)			Max. User Access	
Close Focus Distance Lens		Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Edge Storage
DORI Distance ¹	Wide	57 m (187 ft)	23 m (75 ft)	11 m (36 ft)	6 m (20 ft)	Web Viewer
	Telephoto	137 m (449 ft)	55 m (180 ft)	27 m (89 ft)	14 m (49 ft)	Management Software
Pan/Tilt/	Rotation					Mobile Operating Syst
		Pan: 0° to 360°;			Certifications	
Range Tilt: 0° to 90°; Rotation: 0° to 360°						
Video		Safety				
Compression		Smart H.265+, H.265, Smart H.264+, H.264			Electromagnetic Compatibility (EMC)	
Streaming Capability		Three (3) Streams			Interface	
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)			Video	
Resolution			Main Stream: 1080p at 60 fps			Audio
Resolution		Sub Stream: D1 at 60 fps			Alarm	
Resolution Frame Rate		Sub Stream: D	1 at 60 fps			
			1 at 60 fps 1080p at 60 fps			Electrical
		Third Stream: CBR/VBR	•			Electrical Power Supply

	Main Stream: 1080p at 60 fps	Audio	Input: One (1) Channel Output: One (1) Channel
Frame Rate	Sub Stream: D1 at 60 fps	Alarm	Input: Two (2) Channels (5 mA, 5 VDC) Output: One (1) Channel (1 A, 30 VDC; 0.5 A, 50 VAC)
	Third Stream: 1080p at 60 fps	Electrical	
Bit Rate Control	CBR/VBR	Power Supply	12 VDC or PoE+ (802.3at, Class 4)
Bit Rate	H.264: 24 Kbps to 10240 Kbps H.265: 14 Kbps to 6144 Kbps	Power Consumption	<13 W
		Tower consumption	(15)
. 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.			
us.dahuasecurity.com			

Auto (ICR), Color, B/W

Auto, Manual 3D DNR

Off, On (4 Zone)

0°, 90°, 180°, 270°

Off, On (4 Area, Rectangle)

G.711a, G.711Mu, AAC, G.726

RJ-45 (100/1000 Base-T)

ONVIF, PSIA, CGI

Unicast, Multicast

10 Users / 20 Users

NAS (Network Attached Storage) Local PC for Instant Recording

IE, Chrome, Firefox, Safari

FCC CFR 47 Part 15 subpart B

One (1) CVBS Output Port (for installation adjustment only)

Smart PSS, DSS

IOS, Android

UL60950-1

Micro SD Card Slot, maximum 128 GB

Off, On

BLC, HLC, True WDR (120 dB), SSA

Off, On (4 Zone, Rectangle)

Auto, Natural, Street Lamp, Outdoor, Manual

Electronic Image Stabilization (EIS), Smart IR, Defog

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,

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	273.20 mm x 95.0 mm x 96.40 mm (10.76 in. x 3.74 in. x 3.79 in.)
Net Weight	1.12 kg (2.47 lb)
Gross Weight	1.52 kg (3.35 lb)

Intelligence

Heat Map

PFM320

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

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.	

Ordering Information			
Туре	Part Number	Description	
2 MP Camera	N28BB7Z	2 MP Starlight IR Bullet Network Camera, Built-in Heater, IVS	
	PFA121	Junction Box	
Accessories, optional	PFA152-E	Pole Mount	

Generates a visual representation of activity.

Accessories

Optional:







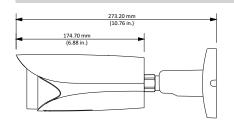
PFA121 Junction Box

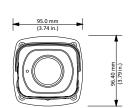
Pole Mount

PFM320 Power Adapter

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152-E

Dimensions (mm/in.)







12 VDC, 2 A Power Adapter