

2 MP Fixed Wedge Network Camera

2 MP IR Wedge Network Camera



System Overview

Dahua's Pro series of cameras offers high-resolution video and cuttingedge technology in a compact and accessible package. The cameras feature H.265 video compression, reducing bandwidth and storage requirements without sacrificing video quality. The camera series incorporates Starlight Technology, Smart IR, and the Intelligent Video Analysis, features typically found on high-end surveillance systems. This series provides a rugged enclosure rated to IP67 Ingress Protection and to IK10 Vandal Resistance to protect your security investment.

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 0.009 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

For applications with both bright and low-light 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 offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

- 1/2.8-in. 2 MP Progressive Scan Exmor CMOS
- Triple-stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codec
- 1080p (1920 × 1080) at 60 fps Maximum Resolution
- 2.8 mm or 3.6 mm Fixed Lens Options
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection and IK10 Vandal Resistance
- True Wide Dynamic Range (120 dB) and Day/Night IR Cut Filter
- Built-in Microphone
- Maximum IR LED Length 20 m (65 ft)
- Five-year Warranty*



High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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.

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.

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.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.



Technical Specification

Camera	
--------	--

Camera			
Image Sensor		1/2.8-in. 2 MP Progressive Scan Exmor CMOS	
Effective Pixels		1920(H) x 1080(V)	
RAM/ROM		256 MB / 32 MB	
Scanning Syste	m	Progressive	
Minimum Illum	ination	Color: 0.009 lux at 2.0 0 lux at F2.0 with IR on	
S/N Ratio		More than 50 dB	
IR Distance		Distance up to 20.0 m (65.60 ft)	
IR On/Off Cont	rol	Auto/ Manual	
IR LEDs		10	
Lens			
Lens Type		Fixed	
Mount Type		Board-in	
Focal Length		N24BN52: 2.8 mm N24BN53: 3.6 mm	
Max. Aperture		F2.0	
Angle of View	Horizontal	N24BN52: 110° N24BN53: 87°	
	Vertical	N24BN52: 58° N24BN53: 48°	
Focus Control		Fixed	
Pan/Tilt/Ro	tation		
Range		Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 360°	
Video			
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	
Streaming Capa	ability	Three (3) Streams	
Resolution		1080p (1920 x 1080) 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 or 720p at 60 fps	
Frame Rate		Sub Stream 1: D1 at 60 fps	
		Sub Stream 2: 1080p at 30 fps	
Bit Rate Control		CBR, VBR	
Bit Rate		H.265: 14 to 5632 Kbps H.264: 24 to 9472 Kbps	
Day/Night		Auto (ICR), Color, B/W	
BLC Mode		BLC, HLC, True WDR (120 dB)	

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)
Smart IR	Support
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 (10/100 Base-T)
Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast, Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	NAS Local PC for Instant Recording MicroSD Card, maximum 128 GB
Web Viewer	IE, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	IOS, Android
Certifications	
Safety	UL60950-1
Electromagnetic Compatibility	FCC Part 15 Subpart B
Interface	
Audio	Built-in Microphone
Electrical	
Power Supply	12 VDC, PoE (802.3af, Class 0)
Power Consumption	< 4.5 W

Pro | N24BN52 / N24BN53

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
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	ø106.0 mm x 50.30 mm (ø4.17 in. x 1.98 in.)
Net Weight	0.40 kg (0.88 lb)
Gross Weight	0.44 kg (0.97 lb)
Intelligence	

Accessories

Optional:







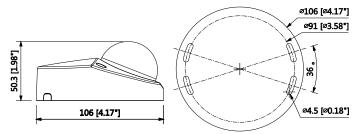
PFA139 Junction Box

PFB204W Wall Mount

PFA152-E Pole Mount

Dimensions	ø106.0 mm x 50.30 mm (ø4.17 in. x 1.98 in.)		
		Junction Mount	Pole Mount
Net Weight	0.40 kg (0.88 lb)	PFA139	PFB204W + PFA152-E
Gross Weight	0.44 kg (0.97 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		Wall Mount	
Motion	An object moves through any part of the scene.	PFB204W	
Tripwire	A target crosses a user-defined line.	1102040	
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.		

Dimensions (mm/in.)





Ordering Information			
Туре	Part Number	Description	

2 MP Camera	N24BN52	2 MP IR Mini Dome Network Camera, 2.8 mm, WDR, IVS
	N24BN53	2 MP IR Mini Dome Network Camera, 3.6 mm, WDR, IVS
Accessories (optional)	PFB204W	Wall mount
	PFA139	Junction box
	PFA152-E	Pole mount