

4 MP Fixed Mini Dome Network Camera

4 MP IR Mini Dome Network Camera



System Overview

Dahua's Pro series of cameras offers high-resolution video and cutting-edge 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 True Wide Dynamic Range, 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 to protect your security investment.

Functions

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 supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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.

- 1/3-in. 4 MP Progressive Scan CMOS
- Triple-stream Encoding with Smart H.265+ Compression
- 4 MP (2688 x 1520) at 30 fps
- Smart Detection Support
- True Wide Dynamic Range (120 dB) and True Day/Night
- Audio and Alarm Interface
- 2.8 mm Fixed Lens
- Maximum IR LED Length 30 m (98 ft)
- Micro SD Memory, IP67, IK10, PoE
- Five-year Warranty*













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.

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.

Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 30\%$ 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			White Balance	Auto, Natural, Street Lamp, Outdoor, Manual
Camera			Gain Control	Auto, Manual
Image Sensor		1/3-in. 4 MP Progressive Scan CMOS	Noise Reduction	3D DNR
Effective Pixels		2688(H) x 1520(V)	Motion Detection	Off, On (4 Zone, Rectangle)
RAM/ROM		512 MB / 32 MB	Region of Interest	Off, On (4 Zone)
Scanning System		Progressive	Smart IR	Support
Minimum Illumination		Color: 0.08 Lux at F2.0 0 Lux at F2.0 with IR on	Digital Zoom	16x
S/N Ratio		More than 50 dB	Flip	0°, 90°, 180°, 270°
IR Distance		Distance up to 30.0 m (98.40 ft)	Privacy Masking	Off, On (4 Area, Rectangle)
IR On/Off Cont	rol	Auto, Manual	Audio	
IR LEDs		24	Compression	G.711a, G.711Mu, AAC, G.726
Lens			Network	
Lens Type		Fixed	Ethernet	RJ-45 (10/100 Base-T)
Mount Type Focal Length		Board-in 2.8 mm	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
Maximum Aperture		F2.0	Interoperability	ONVIF, PSIA, CGI
	Horizontal	104°	Streaming Method	Unicast, Multicast
Angle of View	Vertical	57°	Max. User Access	10 Users / 20 Users
Focus Control		Fixed	Edge Storage	NAS Local PC for Instant Recording MicroSD Card, maximum 128 GB
Pan/Tilt/Ro	tation		Web Viewer	IE, Firefox, Safari
Range		Pan: 0° to 360° Tilt: 0° to 64° Rotation: 0° to 360°	Management Software	Smart PSS, DSS
Video		Notation. 0 to 300	Mobile Operating System	IOS, Android
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Certifications	
Streaming Capa	ability	Three (3) Streams	Safety	UL60950-1
0 37	,	4 MP (2688 x 1520)	Electromagnetic Compatibility	FCC Part 15 Subpart B
		3 MP (2304 x 1296) 1080p (1920 x 1080)	Interface	
Resolution		1.3 MP (1280 x 960) 720p (1280 x 720) D1 (704 x 480) VGA (640 x 480) CIF (352 x 240)	Audio Interface	Input: One (1) Channel Output: One (1) Channel
			Alarm	Input: One (1) Channel Output: One (1) Channel
Frame Rate		Main Stream: 4 MP at 30 fps	Electrical	
		Sub Stream: D1 at 30 fps	Power Supply	12 VDC, PoE (802.3af, Class 0)
		Third Stream: 720p at 30 fps	Power Consumption	< 5 W
Bit Rate Control		CBR, VBR		
Bit Rate		H.264: 24 to 10240 Kbps H.265: 14 to 6144 Kbps		
Day/Night		Auto (ICR), Color, B/W		
BLC Mode		BLC, HLC, True WDR (120 dB)		

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F), Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal, Black
Dimensions	ø109.90 mm x 81.0 mm (ø4.33 in. x 3.19 in.)
Net Weight	0.41 kg (0.91 lb)
Gross Weight	0.53 kg (1.17 lb)

Intelligence

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

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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 human face in a defined area within a scene			

Ordering Information

Туре	Part Number	Description	
4 MP Camera	N44BL52-B	4 MP IR Mini Dome Network Camera, 2.8 mm, IVS, Black Housing	
	PFB302W	Wall mount	
Accessories	PFA136	Junction box	
(optional)	PFA150	Pole mount	
	PFA152	Pole mount	

defined area within a scene.

Accessories

Optional:







Junction Box

PFB203W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152	
Wall Mount		
PFB203W		

Dimensions (mm/inch)





