

2 MP Box Network Camera

2 MP WDR Box 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, and the Intelligent Video System, features typically found on high-end surveillance systems.

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 0.005 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 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.

Street Light Compensation

The camera delivers exceptional images even when shooting under sodium-vapor lamps that typically add a yellowish-tint to the scene hampering identification. This camera provides a built-in white-balance mode that compensates for the tint to restore the scene to its original color.

- 1/2.8-in. 2 MP Progressive-scan CMOS Sensor
- Triple-stream Encoding with Smart H.265+ Compression
- 1080p (1920 x 1080) at 60 fps
- Smart Detection Supported
- True Wide Dynamic Range (120 dB) and Day/Night IR Cut Filter
- Intelligent Video System with Facial Detection
- Alarm and Audio Inputs/Outputs
- Auto Back Focus (ABF)
- Micro SD Memory, PoE
- 5-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.264 video compression.

Environmental

With a temperature range of-30 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to +140 $^{\circ}$ F), the camera is designed for extreme temperature environments.

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		
Image Sensor	1/2.8-in. 2 MP Progressive-scan CMOS	
Effective Pixels	1920(H) x 1080(V)	
RAM/ROM	256 MB /32 MB	
Scanning System	Progressive	
Minimum Illumination	Color: 0. 005 Lux at F1.2 B/W: 0.001 Lux at F1.2	
S/N Ratio	More than 50 dB	
Lens Mount Type	C/CS	
Video		
Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	
Streaming Capability	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)	
Frame Rate	Main Stream: 1080p at 60 fps	
	Sub Stream 1: D1 at 60 fps	
	Sub Stream 2: 1080p at 30 fps	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 24 Kbps to 9472 Kbps H.265: 14 Kbps to 5632 Kbps	
Day/Night	Auto (ICR), Color, B/W	
BLC Mode	BLC, HLC, 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)	
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	EN 60950:2000 UL60950-1	
Electromagnetic Compatibility	FCC Part 15 Subpart B	
Interface		
Video Interface	One (1) Port	
Audio Interface	Input: One (1) Channel, with One (1) Built-in Microphone Output: One (1) Channel	
RS485	One (1) Port	
Alarm	Input: Two (2) Channels Output: One (1) Channel	
Electrical		
Power Supply	12 VDC, 24 VAC, PoE (802.3af Class 0)	
Power Consumption	< 5 W	

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

Construction

Casing	Metal
Dimensions	135.40 mm x 74.40 mm x 65.50 mm (5.33 in. x 2.93 in. x 2.58 in.)
Net Weight	0.66 kg (1.46 lb)
Gross Weight	0.77 kg (1.70 lb)

Intelligence

Ordering Information

PFA151

PFA152

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 human face in a defined area within a scene.

Туре Part Number Description Camera N25BA5 2 MP Box Network Camera, WDR, IVS PFB110W Wall Mount PFB121W Wall Mount PFA121 Junction Box (use with PFB121W) Accessories PFA122 Junction Box (use with PFB110W) (optional) PFA150 Pole Mount

Corner Mount

Pole Mount

Accessories

Optional:











PFB110W Wall Mount

PFB121W Wall Mount

PFA150 Pole Mount

PFA151 Corner Mount

PFA152 Pole Mount

Wall Mount	Wall/Ceiling Mount
PFB121W	PFB110W



