

4 MP Dome Network Camera

WDR IR Dome Network Camera



System Overview

Dahua's Lite series of cameras offers high-resolution video and cutting-edge technology in a compact and accessible package. The cameras feature Smart H.264+ video compression, reducing bandwidth and storage requirements without sacrificing video quality. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Regions of Interest

Regions of Interest (ROI) is a user-defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas.

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 camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30 m (98 ft).

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.

- 1/3-in. 4 MP Progressive CMOS
- Smart H.264+¹ and H.264 Dual-stream Encoding
- 4 MP at 20 fps and 2 MP at 30 fps
- WDR (120 dB), Day/Night (ICR), 3DNR, AWB, AGC, BLC
- Multiple Network Monitoring: Web Viewer, CMS (DSS/PSS) and DMSS
- Micro SD Card Support, up to 128 GB
- 2.7 mm to 12 mm Varifocal Lens
- Max. IR LED Length 30 m (98 ft)
- IP67, IK10, PoE



Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Smart H.264+1

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Lite Series | N42AM3Z

Technical Specification					
Camera					
Image Sensor		1/3-in. 4 MP Progressive CMOS			
Effective Pixels		2688(H) x 1520(V)			
RAM/ROM		256 MB / 16 MB			
Scanning System		Progressive			
Minimum Illumination		Color: 0.1 Lux at F1.4 0 Lux at F1.4 (IR on)			
S/N Ratio		More than 50 dB			
IR Distance		Distance up to 30 m (98 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		Two (2)			
Lens					
Lens Type		Motorized			
Mount Type		Board-in			
Focal Length		2.7 mm to 12 mm			
Max. Aperture		F1.4			
Angle of View		Horizontal: 35° to 100° Vertical: 20° to 54°			
Focus Control		Auto			
Close Focus Distance		0.3 m			
Range					
Pan/Tilt		Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°			
Video					
Compression		Smart H.264+ ¹ , H.264			
Streaming Capability		Two (2) Streams			
Resolution		4 MP (2688 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)			
Eramo Bata	Main Stream	4 MP at 20 fps or 2 MP at 30 fps			
Frame Rate	Sub Stream	D1, CIF at 30 fps			
Bit Rate Control		CBR, VBR			
Bit Rate		H264:24 K to 8192 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)			
Smart IR	Support			
Digital Zoom	16x			
Flip	0°/90°/180°/270°			
Mirror	Off, On			
Privacy Masking	Off, On (4 Area, Rectangle)			
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			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Max. User Access	10 Users / 20 Users			
Edge Storage	NAS (Network Attached Storage) Local PC for instant recording Micro SD Card, max. 128 GB			
Web Viewer	IE, Firefox, Safari			
Management Software	Smart PSS, DSS			
Mobile Operating System	IOS, Android			
Certifications				
Safety	UL 60950-1			
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B			
Electrical				
Power Supply	DC12V, PoE (802.3af, Class 0)			
Power Consumption	< 9.75 W			

Lite Series | N42AM3Z

Environmental

Ordering Information

-30° C to +60° C (-22° F to +140° F), Less than 95% RH				
-30° C to +60° C (-22° F to +140° F), Less than 95% RH				
IP67				
IK10				
Construction				
Metal				
Φ122.0 mm × 88.90 mm (Φ4.80 in. x 3.50 in.)				
0.40 kg (0.88 lb)				
0.54 kg (1.19 lb)				

Accessories

Optional:

Junction Box



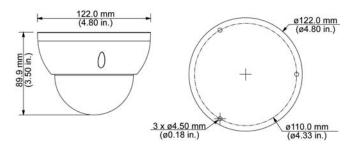




PFB200C In-ceiling Mount

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152

Dimensions (mm/inch)



alhua
TECHNOLOGY

0			
Туре	Part Number	Description	
4 MP Camera	N42AM3Z	4 MP WDR IR Dome Network Camera	
Accessories (optional)	PFA137	Junction box	
	PFB203W	Wall mount	
	PFA152	Pole mount	
	PFB200C	In-ceiling mount	