

4 MP Eyeball Network Camera

WDR IR Eyeball 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 advanced video compression technology, 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 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. The camera's integrated infrared illumination provides high-performance in extreme low-light environments up to 60 m (197 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+ and H.264 Dual-stream Encoding
- 4 MP at 20 fps and 3 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 60 m (197 ft)
- IP67, 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), the camera is the choice for installation in even the most unforgiving environments.



Lite Series | N42AH3Z

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 60 m (197 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 360° Tilt: 0° to 78° Rotation: 0° to 360°		
Video				
Compression		Smart H.264+ ¹ , H.264		
Streaming Capa	bility	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)		
France Data	Main Stream	4 MP at 20 fps or 3 MP at 30 fps		
Frame Rate	Sub Stream	D1, CIF at 30 fps		
Bit Rate Control		CBR, VBR		
Bit Rate		H264: 24 K to 8 Mbps		
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

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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			
Construction				
Casing	Metal			
Dimensions	Φ122.0 mm x 104.90 mm (Φ4.80 in. x 4.10 in.)			
Net Weight	0.59 kg (1.30 lb)			
Gross Weight	0.71 kg (1.57 lb)			

Accessories

Optional:

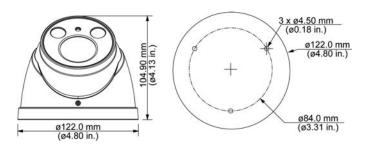




	1.4.4
203W	PFA152
mount	Pole mount

Junction Mount	Pole Mount
PFA137	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)





Ordering Information				
Туре	Part Number	Description		
4 MP Camera	N42AH3Z	4 MP WDR IR Eyeball Network Camera		
Accessories (optional)	PFA137	Junction box		
	PFB203W	Wall mount		
	PFA152	Pole mount		