

4MP Fixed-focal Bullet WizSense Network Camera

Fixed-focal Network Camera with Smart Dual Illumination and Analytics+







WizSense Series devices combine Dahua's powerful Analytics+ with an intuitive and easy to use interface. WizSense devices offer Smart Motion Detection and Perimeter Protection functions that focus on human and vehicular images and ignore irrelevant images to capture important video while reducing false alarms. WizSense Series devices provide powerful general surveillance for small to medium size businesses at a sensible price.

System Overview

The Dahua VU-MORE Color Lite Series camera offers multiple features such as motion detection and Smart Dual Illumination to provide deterrence, overtness, and full-color video. The camera provides increased color viewing at night for a variety of small to mid-size applications at an affordable price.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Smart Motion Detection+

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

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.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR)

- 1/3-in. 4MP Progressive-scan CMOS Sensor
- 4MP at 20 fps Maximum Resolution, 2.8 mm Fixed Lens
- Analytics+ Function Perimeter Protection and Smart Motion Detection+
- · Dual Stream Encoding
- Smart Dual Illumination IR and White Light
- Smart H.265+ and Smart H.264+ Dual Codecs
- True WDR (120 dB) and Day/Night (ICR)
- Maximum IR LED Length 30 m (98.43 ft) with Smart IR
- Intelligent Video System
- IP67 Ingress Protection
- Five-year Warranty*











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.

Smart Dual Illuminators

The camera offers both IR and white-light illuminators and intelligently employs each depending on the situation. Typically, the camera enters the IR mode as ambient light decreases. When the camera detects a person entering the monitoring area, it activates the white-light illuminator to capture full-color details. Once the person leaves the area, the camera switches back to IR illumination.

Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations and intrusion detection. A camera with IVS quickly and accurately responds to monitoring events in a specific area and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Smart IR Technology

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 30 m (98.43 ft).

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Environmental IP67

Subjected to rigorous dust and water immersion tests the camera suitable for the most demanding outdoor applications. The camera carries an IP67 rating that ensures protection from total dust ingress and protection from water immersion between 15 centimeters and 1 meter in depth.

Technical S	pecification					Smart IR	Supported
Camera						Image Rotation	0°, 90°, 180°, 270°
		1/2 in CMOS				Mirror	Off, On
mage Sensor 1/3-in. CMOS Effective Pixels 2688 (H) × 1520 (V), 4MP				Privacy Masking	Off, On (4 Areas, Rectangle)		
		020 (V), 4IVIF	, v), +ivir		Audio		
Scanning Syste RAM/ROM	:111	Progressive 128 MB/128 MB				Audio	
Electronic Shutter Speed		Auto, Manual, 1/3 s to 1/100,000 s				Built-in MIC	Yes
Electronic Shutter Speed		0.008 lux at F1.6 (Color, 30 IRE)				Audio Compression	G.711a, G.711Mu, PCM, G.726
Minimum Illumination		0.0008 lux at F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Network	
S/N Ratio		> 56 dB				Ethernet	RJ-45 (10/100 Base-T)
IR Distance		30 m (98.43 ft) (IR), 15 m (49.21 ft) (Warm light)					IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP,
IR On/Off Control		Auto; Manual				Protocol	RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP,
Illuminators		One (1) IR LED One (1) Warm Light					Multcast, ICMP, IGMP
Lens		One (1) Warm Light				Interoperability	ONVIF (Profile S, Profile T), CGI, P2P, Milestone, SDK, API
Lens Type		Fixed-focal				Maximum User Access	6 (Total bandwidth: 36 M)
Iris Type		Fixed				Edge Storage	FTP, SFTP Micro SD Card Slot (Maximum 256 GB)
Mount Type		M12				Web Viewer	IE, Chrome, Firefox
Focal Length		2.8 mm					DSS, DMSS
Maximum Ape	rture	F1.6				Management Software	,
·		Horizontal 95°				Mobile Operating System	iOS, Android
Angle of View		Vertical	52°				Configuration Encrypton, Trusted Executon, Diges
		Diagonal	114°			Cyber Security	Security Logs, WSSE, Account Lockout, Syslog, Vic Encrypton, 802.1x, IP/MAC Filtering, HTTPS, Trus
Close Focus Distance		0.9 m (2.95 ft)				eyse. seesy	Upgrade, Trusted Boot, Firmware Encrypton,
Close i ocus Dis	stance		Generating and importing x.55.				Generating and Importing X.509 Certification
		Detect	Observe	Recognize	Identify	Cartifications	
DORI¹ Distance		63.6 m 25.4	25.4 m		6.4 m (20.99 ft)	Certifications	
		(208.66 ft)	(83.33 ft)			Safety	EN 62368-1
Pan / Tilt / Rotation						Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30
Pan/Tilt/Rotation		Pan: 0° to 360°				Electrical	
		Tilt: 0° to 90° Rotation: 0° to 360°				Power Supply	12 VDC or PoE (802.3af)
v e 1						. one. supp.,	Basic: 1.9 W (12 VDC), 2.4 W (PoE);
Video		Smart H.265+, Smart H.264+, H.264H, H.265, H.264,			H.265, H.264,	Power Consumption	Maximum: 5.2 W (12 VDC), 5.9 W (PoE) (H.265 + Intelligence + WDR + Warm Light)
Compression		H.264B, MJPEG (Only supported by the sub stream)			sub stream)	Environmental	
Streaming Capability		Two (2) Streams				Environmental	
		4MP (2688 × 1520), 3.6MP (2560 × 1440), 3MP				Operating Conditions	-40°C to +60°C (-40°F to +140°F), Less than 95% RH
Resolution		(2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 480), VGA (640				Storage Conditions	-40°C to +60°C (-40°F to +140°F)
		× 480), CIF (352 × 240)		Ingress Protection	IP67		
Frame Rate	Main Stream	2688 × 1520 at 20 fps					
	Sub Stream	704 × 480 at 20 fps				Construction	
Pit Pato		H.264: 32 kb	ps to 6144 kb	ps		Casing	Metal
Bit Rate		H.265: 12 kbps to 6144 kbps				Dimensions	166.2 mm × Φ70 mm (6.54 in. × Φ2.76 in.)
Bit Rate Control		CBR, VBR				Net Weight	0.48 kg (1.06 lb)
Day/Night		Auto (ICR); Manual				Gross Weight	0.57 kg (1.26 lb)
BLC Mode		BLC, HLC, WDR (120 dB)				Analytica, Cynations	
White Balance		Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom				Analytics+ Functions	Detects human or vehicle violations using the
Gain Control		Auto, Gain Priority, Shutter Priority, Manual					following methods:
Noise Reduction		3DNR				Perimeter Protection	Tripwire : a target crosses a defined line. Intrusion: a target enters or exits a defined
Motion Detection		Off, On (4 Zones, Rectangle)				rennieter Frotection	perimeter.
Motion Detect	ion	Off, On (4 Zor	nes, Rectangi	e)			p = · · · · · · · · · · · · · · · · · ·
Motion Detect Region of Inter		Off, On (4 Zor		e)			 Monitors a combination of detection methods. Search and retrieve video based on target type.

Intelligent Search

intelligent searches, event extraction and merging to

event videos

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications..

Smart Motion Detection+2

- Differentiates between and classifies human and vehicle objects.
- Filters false alarms due to leaves, lights, animals, and other inconsequential objects.
- Extracts human or vehicle objects from recorded video for quick target search and retrieval.

Intelligent Video System Functions

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.
- IP Address Conflict

Ordering Information						
Туре	Part Number	Description				
4MP Camera	N42DDS2	4MP VU-MORE COLOR Fixed-focal Bullet WizSense Network Camera				
	PFA134	Junction Box				
	PFA151	Corner Mount (use with PFA134 junction box)				
Accessories	PFA152-E	Pole Mount				
(Optional)	DH-PFM321D-US	12V 1A Power Adapter				
	DHI-TF-P100 Series	Micro SDXC Cards (64 GB, 128 GB, or 256 GB)				
	DH-PFM920I- 5EU-U	305 m (1000 ft) CAT5e UTP Cable				

Accessories (Optional)



PFA134 Junction Box



PFA151 Corner Mount



PFA152-E Pole Mount



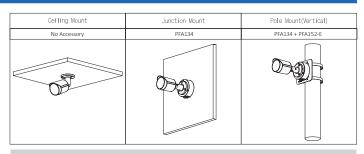
DH-PFM321D-US 12 VDC, 1 A Power Adapter



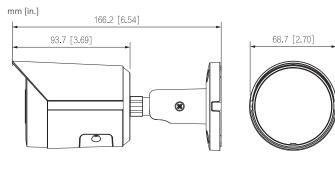
DHI-TF-P100 Series Micro SDXC Cards (64 GB, 128 GB, or 256 GB)



DH-PFM920I-5EU-U 305 m (1000 ft) CAT5e UTP Cable



Dimensions







Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back recorded video.