

Dahua Basic Night Color (VU-MORE Color) Network Bullet Camera

WizSense Camera with Smart Dual Illumination and Analytics+





VU-MORE

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 security for small to medium size businesses at a sensible price.

System Overview

The Dahua Basic Night Color (VU-MORE Color) 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.

- 1/2.7-in. 8MP Progressive-scan CMOS Sensor
- 8MP 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
- IP67 Ingress Protection
- Five-year Warranty*



Wide Dynamic Range (WDR)

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.

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.

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.



Lite Series | N82DDS2

Technical Specification

Camera

Camera					
Image Sensor		1/2.7-in. CMOS			
Effective Pixels		3840 (H) x 2160 (V), 8MP			
Scanning System		Progressive			
RAM/ROM		256 MB/128 MB			
Electronic Shutter Speed		Auto, Manual, 1/3 s to 1/100,000 s			
Minimum Illumination		0.008 lux at F1.6 (Color, 30 IRE) 0.0008 lux at F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
IR Distance		30 m (98.43 ft) (IR), 30 m (98.43 ft) (Warm light)			
IR On/Off Control		Auto; Manual			
Illuminators		One (1) IR LED One (1) Warm Light			
Lens					
Lens Type		Fixed-focal			
Iris Type		Fixed			
Mount Type		M12			
Focal Length		2.8 mm			
Maximum Aper	ture	F1.6			
		Horizontal	111°		
Angle of View		Vertical	58°		
-		Diagonal	132°		
Close Focus Dist	tance	1.5 m (4.92 ft)			
		Detect O	bserve	Recognize	Identify
DORI ¹ Distance			3.9 m 1.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)
Pan / Tilt /	Rotation				
Pan/Tilt/Rotation		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°			
Video					
Compression		Smart H.265+, Smart H.264+, H.264H, H.265, H.264, H.264B, MJPEG (Only supported by the sub stream)			
Compression			ur LO (OII	,	
Compression Streaming Capa	bility		01 EG (OII	, ,,	
	ibility	stream)	0), 6MP (3 48 × 1536), 720p (1	3072 x 2048), 4 5), 1080p (192	0 × 1080),
Streaming Capa	ability Main Stream	stream) Two (2) Streams 8MP (3840 x 216 × 1520), 3MP (20 1.3M(1280 × 960	0), 6MP (3 48 × 1536), 720p (1 40)	3072 x 2048), 4 5), 1080p (192 280 x 720), VC	0 × 1080), GA (640 ×
Streaming Capa		stream) Two (2) Streams 8MP (3840 × 216 × 1520), 3MP (20 1.3M(1280 × 960 480), CIF (352 × 2	D), 6MP (3 48 × 1536), 720p (1 40) D fps, 268	3072 x 2048), 4 5), 1080p (192 280 x 720), VC	0 × 1080), GA (640 ×
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Streaming Capa Resolution Frame Rate Bit Rate Bit Rate Control	Main Stream Sub Stream	stream) Two (2) Streams 8MP (3840 × 216) × 1520), 3MP (20) 1.3M(1280 × 960) 480), CIF (352 × 2) 3840 × 2160 at 20 704 × 480 at 20 fp H.264: 32 kbps to H.264: 32 kbps to CBR, VBR Auto (ICR); Manu BLC, HLC, WDR (0), 6MP (3 48 × 1536), 720p (1 40) 0 fps, 268 os 8192 kbp 8192 kbp al 120 dB)	3072 x 2048), / 5), 1080p (192 280 x 720), VC 8 x 1520 at 30 55	0 × 1080), GA (640 ×
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Streaming Capa Resolution Frame Rate Bit Rate Bit Rate Control Day/Night BLC Mode White Balance Gain Control Noise Reduction Motion Detection Region of Interest	Main Stream Sub Stream	stream) Two (2) Streams 8MP (3840 x 216) × 1520), 3MP (20) 1.3M(1280 × 960) 480), CIF (352 × 2) 3840 × 2160 at 20 704 × 480 at 20 fp H.264: 32 kbps to H.265: 12 kbps to H.265: 12 kbps to CBR, VBR Auto (ICR); Manu BLC , HLC, WDR (Auto, Natural, Str Regional Custom Auto, Gain Priorit 3DNR Off, On (4 Zones, Off, On (4 Zones)	0), 6MP (3 48 × 1536), 720p (1 40) 0 fps, 268 05 8192 kbp 8192 kbp al 120 dB) eet Lamp y, Shutter	8072 x 2048), , 5), 1080p (192 280 x 720), VG 8 x 1520 at 30 95 95 , Outdoor, Mai Priority, Manu	0 × 1080), 5A (640 × fps nual,
Streaming Capa Resolution Frame Rate Bit Rate Bit Rate Control Day/Night BLC Mode White Balance Gain Control Noise Reduction Motion Detection	Main Stream Sub Stream	stream) Two (2) Streams 8MP (3840 x 216) × 1520), 3MP (20) 1.3M(1280 × 960) 480), CIF (352 × 2) 3840 × 2160 at 20 704 × 480 at 20 fp H.264: 32 kbps tc H.265: 12 kbps tc H.265: 12 kbps tc CBR, VBR Auto (ICR); Manu BLC , HLC, WDR (Auto, Natural, Str Regional Custom Auto, Gain Priorit 3DNR Off, On (4 Zones) Supported 0°, 90°, 180°, 2700	0), 6MP (3 48 × 1536), 720p (1 40) 0 fps, 268 os 9 8192 kbp 8 192 kbp al 120 dB) eet Lamp y, Shutter Rectangle	3072 x 2048), , 5), 1080p (192 280 x 720), VC 8 x 1520 at 30 05 05 , Outdoor, Man Priority, Manu	0 × 1080), 5A (640 × fps nual, Jal
Streaming Capa Resolution Frame Rate Bit Rate Bit Rate Control Day/Night BLC Mode White Balance Gain Control Noise Reduction Motion Detection Region of Interes Smart IR	Main Stream Sub Stream	stream) Two (2) Streams 8MP (3840 × 216) × 1520), 3MP (20) 1.3M(1280 × 960) 480), CIF (352 × 2) 3840 × 2160 at 20 704 × 480 at 20 fp H.264: 32 kbps to H.264: 32 kbps to CBR, VBR Auto (ICR); Manu BLC, HLC, WDR (Auto, Natural, Str Regional Custom Auto, Gain Priorit 3DNR Off, On (4 Zones, Off, On (4 Zones) Supported	0), 6MP (3 48 × 1536), 720p (1 40) 0 fps, 268 os 9 8192 kbp 8 192 kbp al 120 dB) eet Lamp y, Shutter Rectangle	3072 x 2048), , 5), 1080p (192 280 x 720), VC 8 x 1520 at 30 05 05 , Outdoor, Man Priority, Manu	0 × 1080), 5A (640 × fps nual, Jal

Built-in MIC	Yes		
Audio Compression	G.711A, G.711Mu, PCM, G.726, AAC		
Network			
Network			
Ethernet	RJ-45 (10/100 Base-T)		
Protocol	IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, NTP, Multcast, ICMP, IGMP		
Interoperability	ONVIF (Profile S, Profile T), CGI, P2P, SDK, API		
Maximum User Access	20 (Total bandwidth: 48 M)		
Edge Storage	NAS, FTP, SFTP, Micro SD Card (Maximum 256 GB)		
Web Viewer	IE, Chrome, Firefox		
Management Software	DSS, SmartPSS Lite, DMSS		
Mobile Operating System	iOS, Android		
Cyber Security	Configuraton Encrypton, Trusted Executon, Diges Security Logs, WSSE, Account Lockout, Syslog, Vide Encrypton, 802.1x, IP/MAC Filtering, HTTPS, Truste Upgrade, Trusted Boot, Firmware Encrypto Generating and Importing X.509 Certificaton		
Certifications			
Safety	EN 62368-1		
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30 EU		
Electrical			
Power Supply	12 VDC or PoE (802.3af)		
Power Consumption	Basic: 2.7 W (12 VDC), 3.4 W (PoE) Maximum: 5W (12VDC), 5.9W (PoE) (H.265 + Intelligence + WDR + Warm Light)		
Environmental			
Operating Conditions	-40°C to +55°C (-40°F to +131°F), Less than 95% RH		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	IP67		
Construction			
Casing	Metal		
Dimensions	166.2 mm × Φ70 mm (6.54 in. × Φ2.76 in.)		
Net Weight	0.48 kg (1.06 lb)		
Gross Weight	0.57 kg (1.26 lb)		
Application Frontiers			
Analytics+ Functions Perimeter Protection	 Detects human or vehicle violations using the following methods: Tripwire: a target crosses a defined line. Intrusion: a target enters or exits a defined perimeter. Monitors a combination of detection methods. Search and retrieve video based on target type. 		
Intelligent Search	Works with a Smart NVR to perform and refine intelligent searches, event extraction and merging t event videos		
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. 		

2.

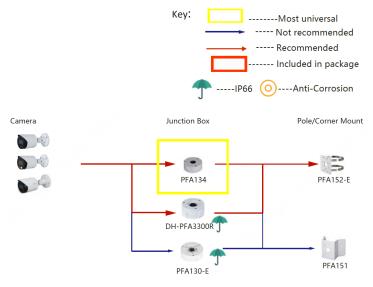
Your needs. The DONI distance is calculated based on sensor specifications and lab test results according to Extreme the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications... Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back recorded video.

Lite Series | N82DDS2

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
Mounting Diagram	

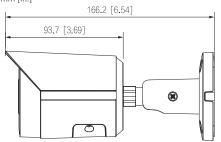


For all possible accessory combinations for this camera, please scan or click the QR code below to go to our accessory selector.



Dimensions

mm [in.]



68.7 [2.70]

