

# **NWC-0900 Day/Night Megapixel IP Camera**



The NWC-0900 Day/Night Megapixel IP Camera highperformance, network-controlled camera delivers data to, and can get power from, the Ethernet network. It is equipped with two 1/2-inch sensors for 24-hour surveillance, and switches automatically between color and monochrome sensors according to lighting conditions, ensuring the best possible image at any time. These innovative features combined with high quality image processing, enables it to function well in extreme lighting conditions from more than 100,000 lux, down to 0.01 lux. Both the frame rate and resolution are adjustable, providing precise fine-tuning of the image quality to accommodate bandwidth and storage requirements. Adjustable MJPEG compression further reduces the impact on transmission speed and storage. View full resolution images, live or during playback, with the Bosch DiBos 8 Hybrid digital video recorder. Record and monitor as many as four user-defined zoomed areas per camera for closer examination.

## **Functions**

#### Configuration

Install the camera and network parameters using a simple user interface and easy-to-understand software. The camera may be equipped with a wide variety of C/CS mount 1/2-inch lenses.

## Video encoding

The camera produces high-quality streaming video with exceptionally sharp resolution. Advanced MJPEG compression allows the camera to deliver megapixel video resolution at up to 32 images per second over its Ethernet connection.

## **Network and power**

The camera transfers data at up to 45 Mbit/s over an Ethernet connection. It draws power from the network connection (PoE with full 802.3af compliancy) or from a 12 VDC external power source. PoE allows greater placement flexibility and more cost-effective installation, since cameras do not require a local power source. Attaching an uninterruptible power source (UPS) on a PoE switch allows continuous operation and surveillance, even during power failures.

#### Operation

Dual sensor technology provides enhanced night viewing by switching to monochrome imaging when the illumination level is too low to capture colors accurately. The camera automatically senses the illumination level of its field of vision and switches lenses.. High quality image processing provides sharp images with high detail and outstanding color accuracy, even in extreme lighting conditions. Selectable resolutions and frame rates, combined with

adjustable MJPEG compression, allow the user to select the best image quality for the given bandwidth or storage restrictions.

## Interconnections

- RJ45 100 base-T jack
- Power connector

## **Certifications and Approvals**

Safety	acc. to EN 60950 (CE) acc. to UL 60950-1; CAN/CSA E 60950-1
Immunity	acc. to EN 55024 IT equipment (CE)
Emission	acc. to EN 55022 class A (CE) acc. to EN 61000-3-2 (CE); EN 61000-3-3 (CE) acc. to FCC CFR 47 Part 15, Class A

## **Parts Included**

Qty	Components
1	NWC-0900 Day/Night Megapixel IP Camera*
2	CS to C mount adapters
1	Quick installation guide
1	CD-ROM with manual and Setup/Viewer software
1	1/16 in. hex key for back focus adjustment

<sup>\*</sup> Lenses not included

## **Technical Specifications**

-	
ы	ectrical
	CCLIICUI

Power Supply	PoE or external
Rated Voltage (ext.)	12 VDC
Voltage Range (ext.)	9 to 12 VDC
Power Consumption	0.5 A
Connector (ext.)	5 mm, center contact positive
PoE	IEEE 802.3af compliant RJ45 connector
Video Compression	MJPEG
viaco compression	Mor Ed
Sensors	mor Eq
•	½ in. CMOS
Sensors	
Sensors  • Monochrome	½ in. CMOS
Sensors  Monochrome  Color	½ in. CMOS

Keso	lution	IPS (monochr	
•	1280 x 1024	32	32
•	1600 x 1200	) NA	24
•	1920 x 1080	) NA	22
•	1920 x 1200	) NA	20
•	2040 x 1530	) NA	15
Vide	o S/N		
Sens	itivity		
•	Monochrome	0.01 lx at F1.4	l (lowlight exposure)
•	Color	1.0 lx at F1.4	(lowlight exposure)
Ехро	sure		
•	High Speed	1 to 10 ms, ad	justable
•	Speed	10 ms (80 ms	lowlight)
•	Balanced	20 ms (80 ms	lowlight)
•	Quality	40 ms (200 m	s lowlight)
•	Moonlight	Up to 500 ms	lowlight
Dyna	mic Range	60 dB	
BLC		Auto	
Gain		Auto, fixed lev	el selectable
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White <b>Soft</b> Unit	e Balance ware control Configuration		ser and proprietary software
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White Soft Unit MJPE Min. Flick Firm Netw Proto Ether Over Mecl Dime Weig Mour Color Lens * Wit Envir	ware control Configuration EG Quality window Size er Control ware vork cools rnet all Unit Delay hanical ensions (H x W x ht* nting r Mounting thout lenses ronmental rating temperatur	Via web brow Selectable, 2 32 x 32 pixel 50/60 Hz, se Flash PROM,  HTTP, ARP, UDP, IP, I 100 Base-T, auto-sen 2 frames, 45 ms per f  (D)* 63.5 x 76 x 1 Approx. 0.45 ¼ in. tripod o Silver and bla CS-mount (Course	rser and proprietary software 1 levels s lectable update via network  CMP, TFTP sing, half/full duplex, RJ45 frame  25 mm (2.5 x 3 x 4.9 in.) kg (1 lb) n top and bottom uck -mount with adaptor)  CC (+32 °F to +104 °F) 0 °C (-4 °F to +140 °F) e humidity

## Compatibility table for camera / lens / enclosure

## **Enclosure Models**

Lens type	HSG9483	UHO-HBGS-10	UHI-SBG-0
VLM-0814-MP, 8 mm F1.4, Manual iris	+*	+*	_
VLM-1214-MP, 12 mm F1.4, Manual iris	+	+	_
VLM-1614-MP, 16 mm F1.4, Manual iris	+	+	_
VLM-2514-MP, 25 mm F1.4. Manual iris	+	+	_

## Legend

- + Compatible
- +\* Carefully align close to the window. Some shading may occur due to manufacturing tolerances.
- Not compatible.

Ordering Information	Ord	leri	ing	Inf	for	ma	ti	on
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NWC-0900 Day/Night Megapixel IP Camera Megapixel Camera, Day/Night, 1.3 MP mono and 3.1 MP color resolution, 12 VDC/POE

NWC-0900

Accessories	
VLM-0814-MP Lens 2/3-inch 8 mm F1.4 C-mount monofocal manual iris	VLM-0814-MP
VLM-1214-MP Lens 2/3-inch 12 mm F1.4 C-mount monofo- cal manual iris	VLM-1214-MP
VLM-1614-MP Lens 2/3-inch 16 mm F1.4 C-mount monofo- cal manual iris	VLM-1614-MP
VLM-2514-MP	VLM-2514-MP

Lens 2/3-inch 25 mm F1.4 C-mount monofocal manual iris