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# NWC-0700 and 0800 Megapixel IP Cameras



- ▶ 2.0 or 3.1 megapixel resolution versions
- ▶ Selectable resolution and frame rate
- ▶ High quality MJPEG video compression
- ▶ Replaces several fixed-mount analog cameras
- ▶ Integrates with DiBos Hybrid Digital Video Recorder (DVR)
- ▶ Power over Ethernet (PoE) or 12 VDC external power source

The NWC-0700 and the NWC-0800 Megapixel IP Camera delivers data to, and gets power from, the Ethernet network. The megapixel resolution, combined with high quality image processing, let these cameras operate in extreme lighting conditions from more than 100,000 lux to as low as one lux. Both the frame rate and resolution are adjustable, providing precise fine-tuning of the image quality to accommodate the 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 DVR. Record and monitor as many as four user-defined zoomed areas per camera for closer examination.

## Functions

### Configuration

Configure network parameters and install the camera using a simple user interface with easy-to-understand software. The camera can be equipped with a wide variety of C/CS mount 1/2-inch lenses and supports auto-iris lenses.

### Video encoding

The camera produces high-quality streaming video with exceptionally sharp resolution. Advanced MJPEG compression allows the camera to deliver 1600 x 1200 video resolution at up to 24 images per second over its Ethernet connection.

### Network and power

Either camera transfers data at up to 45 Mbit/s over an Ethernet connection and 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. Connecting an uninterruptible power source (UPS) to the PoE switch allows continuous operation and surveillance, even during power failures.

### Operation

These innovative cameras provide high quality image processing that produce sharp images with high detail and outstanding color accuracy. Selectable resolutions and frame rates, combined with adjustable MJPEG compression, allow the best image quality for the given bandwidth or storage restrictions.

## 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-0700 Megapixel IP Camera* or NWC-0800 Megapixel IP Camera*
1	CS to C mount adapter
1	Quick installation guide
1	CD-ROM with manual and Setup/Viewer software
1	1/16 in. hex key for back focus adjustment

\* Lens not included

## Technical Specifications

### Electrical

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
Connector	RJ45
Video Compression	MJPEG
Sensor	½ in. CMOS, color (both models)

### Sensor Matrix

- NWC-0700 1600 x 1200
- NWC-0800 2048 x 1536

Resolution	IPS (NWC-0700)	IPS (NWC-0800)
• 1280 x 1024	32	32
• 1600 x 1200	24	24
• 1920 x 1080	NA	22
• 1920 x 1200	NA	20
• 2040 x 1530	NA	15

### Video S/N

Sensitivity	
• NWC-0700	0.5 lx at F1.4 (lowlight exposure)
• NWC-0800	1.0 lx at F1.4 (lowlight exposure)

Exposure	
• High Speed	1 to 10 ms, adjustable
• Speed	10 ms (80 ms lowlight)
• Balanced	20 ms (80 ms lowlight)
• Quality	40 ms (200 ms lowlight)
• Moonlight	Up to 500 ms lowlight

Dynamic Range	60 dB
BLC	Auto
Gain	Auto, fixed level selectable
White Balance	Auto, multimatrix

### Software Control

Unit Configuration	Via web browser and proprietary software
MJPEG Quality	Selectable, 21 levels
Min. Window Size	32 x 32 pixels
Motion Blurring Correction	On/off
Flicker Control	50/60 Hz, selectable
Firmware	Flash ROM, remote update

### Network

Protocols	HTTP, ARP, UDP, IP, ICMP, TFTP
Ethernet	10/100 Base-T, auto-sensing, half/full duplex, RJ45
Overall Unit Delay	2 frames, 45 ms per frame

### Mechanical

Dimensions (H x W x D)*	63.5 x 76 x 125 mm (2.5 x 3 x 4.9 in.)
Weight*	Approx. 0.45 kg (1 lb)
Mounting	¼ in. tripod on top and bottom
Color	Silver and black
Lens mounting	CS (C-mount with adaptor)

\* Without lens

### Environmental

Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Humidity	<90% relative humidity (non-condensing)

### Compatibility table for camera / lens / enclosure

Lens Type	Enclosure Models		
	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	+	+	+
VLM-3V1228-MP, 12–36 mm F2.8, Manual iris	+	+	+

## Enclosure Models

VLM-2V0414-MP, 4–8 mm F1.4, Manual iris	+	+	+
VLG-2V0414-MP, 4–8 mm F1.4, DC iris	+	+	+

## Legend

+	Compatible
–	Not compatible.

## Ordering Information

<b>NWC-0700 Megapixel IP Camera</b> Megapixel Camera, color, 2.0 MP resolution, 12 VDC/POE	<b>NWC-0700</b>
<b>NWC-0800 Megapixel IP Camera</b> Megapixel Camera, color, 3.1 MP resolution, 12 VDC/POE	<b>NWC-0800</b>
<b>Accessories</b>	
<b>VLM-2V0414-MP</b> Lens 1/2-inch 4-8mm F1.4 C-mount varifocal manual iris	<b>VLM-2V0414-MP</b>
<b>VLG-2V0414-MP</b> Lens 1/2-inch 4-8mm F1.4 C-mount varifocal DC iris	<b>VLG-2V0414-MP</b>
<b>VLM-0814-MP</b> Lens 2/3-inch 8 mm F1.4 C-mount monofocal manual iris	<b>VLM-0814-MP</b>
<b>VLM-1214-MP</b> Lens 2/3-inch 12 mm F1.4 C-mount monofocal manual iris	<b>VLM-1214-MP</b>
<b>VLM-1614-MP</b> Lens 2/3-inch 16 mm F1.4 C-mount monofocal manual iris	<b>VLM-1614-MP</b>
<b>VLM-2514-MP</b> Lens 2/3-inch 25 mm F1.4 C-mount monofocal manual iris	<b>VLM-2514-MP</b>
<b>VLM-3V1228-MP</b> Lens 2/3-inch 12-36mm F2.8 C-mount vari- focal manual iris	<b>VLM-3V1228-MP</b>

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