MESSOA®

NDR720

1MP Indoor IR Dome Network Camera

1/4" Lumii sensor, H.264, 7M (23ft) IR, dual streams, ICR D/N, WDR, built-in mic, PoE

MESSOA NDR720 is a mini-sized megapixel IR dome camera designed for maximum flexibility and plug-and-play integration with MESSOA Lite Series NVR. Measuring merely 83mm in diameter, the palm-sized form factor allows the camera to easily blend into the surroundings, meeting unusual requirements for discreet and covert surveillance. The 4mm lens provides wider coverage coupled with the embedded wide-angle IR illuminator, leaving no blind spot undetected. The camera also features PoE and built-in microphone to make it a versatile choice for indoor projects, such as residence, retail stores, boutiques, hotels and offices.
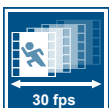
2 year warranty

ONVIF

Easy Plug-and-play NVR Solution Ready

The camera supports plug-and-play when joined with the MESSOA Lite Series NVR, making installation easy and hassle-free. It is ideal for users who are new to IP technology but want to take a leap forward from analog.

Superior Video Quality at Full Frame Rate

With video quality up to 30fps, the camera captures every critical moment with smooth video display and no frame loss guaranteed. Blurry images are reduced as objects of interest come through in perfect clarity.

Compact Design Ideal for Discreet Surveillance

The sleek, compact-designed housing allows the camera to be easily installed and blend in the environment for unobtrusive monitoring, which is perfectly suited where discreet, covert surveillance is required.

7m Night Vision with Even IR Illumination

Built in with patented matrix IR LED, the camera ensures wide-angle, even illumination up to 7 meters. Further enhanced by its smart sensor design, the camera accurately detects changes in lighting and delivers perfect image quality in low light conditions.

True Day/Night with Mechanical IR Cut Filter

The camera automatically detects changes in light intensity and switches between color and B/W modes. It provides perfect color images at day time and crisp monochrome images at night or any other dark environment.

Specifications

Video

Sensor Type	1/4" 1M progress scan CMOS sensor
Active Pixels	1280 x 800 (HxV)
Compression	H.264/MPEG4/Motion JPEG
Streaming	Dual simultaneous streams
Resolution	(WXGA)1280x 800, 1280x 720,800x450, 640x360, 320x180
Max. Frame Rate	Megapixel (1280x 800) at 30 fps (NTSC/PAL)
Day/Night	Mechanical (ICR) D/N Control
Day/Night Mode	Auto/Day/Night
Shutter Time	Range from 1/960s to 1/30s selectable (60Hz); Range from 1/1000s to 1/25s selectable (50Hz)
Minimum Illumination	IR LED Off (shutter speed: 1/30 sec): 0.4 Lux @10IRE; 0.8 Lux @50IRE, IR LED On: 0 lux
Bit Rate Control	Simultaneous stream bit rate control: CBR/VBR

Lens

Type, Focal Length, F-number	Built-in Fixed Lens, f=4mm, F1.5 (Mega pixel lens)
View Angle	H: 53.1°/ V: 33.7°
View Angle Adjustment	Tilt: from 28 ° to 70 ° (Max.)

IR LEDs

LED Quantity	16 pcs Matrix IR (850nm)
IR Distance	7 meters (23 ft.)
IR turn on status	Under 10 Lux by auto control (light sensor), threshold adjustable in UI
LED Life	More than 10,000 hours (50ºC)

Audio

Compression	G.711 μ-Law , PCM, 8kHz
Audio In/Out	Built -in microphone

Image Enhancement

Image Settings	AWB, AES, AGC; Flickerless Mode: On/Off Exposure & Gain Mode: Auto/Manual; White Balance: Auto/Fixed; Sharpness, Saturation, Brightness, Contrast: 17 level sensitivity; Exposure: 15 level sensitivity
Digital WDR	Yes; 8 level sensitivity
Privacy Zone	Yes; customized threshold privacy zone (up to 8)
Image Orientation	Mirror, Flip
Frequency Control	50Hz, 60Hz
Date & Time Stamp	Yes
Test Overlay	Yes

Intelligent Video & Event Management

Motion Detection	Up to 3 customized threshold detection windows, 101 detectd object size or level sensitivity
Ethernet Detection	Network Fail detection
Others	Snapshot, digital Zoom, Optimized i-frame setting
Events	Motion detection, Manual Trigger, Network Fail, Periodically Trigger
Event Actions	File upload via FTP, SMTP and SAMBA; Notification via FTP, and email; Video and audio recording to SAMBA

Store Category	Alarm/Motion/Schedule/Un-interrupt recording Stores video clips and snapshots

Network

Protocol	IPv4, HTTP, HTTPS, SMTP, FTP, DHCP, NTP, TCP/IP, UPnP, RTSP/RTP/RTCP, DNS, DDNS, PPPoE, IGMP, QoS, Bonjour, Samba, Multicast.
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN/WAN, RJ-45
PoE	IEEE 802.3af
ONVIF	Yes
Browser	IE Browser 8.0 or 9.0
Security	Three-level access with password protection

I/O & Controls

Power	DC Jack (2.0mm)
Power LED Indicator	Yes
Network	RJ-45 with LEDs (Network indicator)
Audio In/Out	Built-in Microphone
Reset	Within 1 sec for rebooting system; more than 10 sec until red LED starts to flash for loading default
Bicolor LED	Power & System Status

Power

Power Requirement	DC 12V ± 10% / PoE (IEEE 802.3af)
Power Consumption	7W (Max.)

Mechanism

Dimensions (ΦxH)	Φ83 mm x 73.3 mm (Φ 3.26" x 2.92")
Weight	300g (0.66 lb)
Battery Backed-up Real-time Clock	Yes; Internal RTC

Environment

Operating Temperature	0ºC ~ 50ºC (32ºF ~ 122ºF)
Operating Humidity	20~ 90% RH
Storage Temperature	-10°C ~ 55°C (14°F ~ 131°F)

Regulatory

Approvals	CE, FCC, RoHS

Order Information

Model No.	NTSC: NDR720-HN1-US-MES; PAL: NDR720-HP1-EU-MES; NDR720-HP1-CN-MES
Accessories	Ceiling Mount Metal Bracket Power Supply Wall Mount Bracket (optional) : SAD002

Dimensions

56.2 mm (2.21")
40mm (1.57")
83mm (3.27")
LED
Light Sensor
MIC
70.3mm (2.77")
73.3mm (2.89")
Reset
LAN
DC Power