MESSOA

NDR721
1.3MP Indoor IR Dome Network Camera

1/4" Lumii sensor, H.264, triple streaming, 5m (16ft) IR, ICR day/night, digital WDR, Wi-Fi (optional), microSD/SDHC card slot

MESSOA NDR721 is a 1.3MP Indoor IR Dome Network Camera designed for indoor applications via plug-and-play integration with MESSOA Lite Series NVR. Measuring just 9cm in diameter, the ultra-compact camera is able to blend into the surroundings perfectly to meet special requirements for discreet surveillance. The megapixel video delivers wider coverage, while the built-in wide-angle IR LED ensures night vision up to 5m in total darkness. The camera also features Wi-Fi connectivity that can be directly applied with the existing Wi-Fi network or where a wired network connection may not be available.

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 hassle-free. It is ideal for users who are new to IP technology but want to make an upgrade from the analog system.

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.

Ultra Wide Dynamic Range

Compared with standard WDR, the new generation WDR features sophisticated algorithm to further expand its dynamic range of the lighting conditions. It allows the camera to capture greater details in high contrast settings or in scenes with extremely bright and dark areas.

5m Night Vision with Even IR Illumination

The camera is built in with high-power IR LED to deliver superior night vision up to 5 meters. The IR LED ensures even illumination for effective indoor surveillance in complete darkness

Specifications

Video

Sensor Type	1/4" image sensor
Active Pixels	1280 x 1024 (HxV)
Compression	H.264 / MPEG4 / Motion JPEG
Streaming	Simultaneously multi-profile streaming
Resolution	1280x1024, 1024x768, 800x600, 640x480, 320x240, 160x120 (1.3M mode) 1280x720, 800x450, 640x360, 320x180 (16:9 mode)
Max. Frame Rate	1.3MP (1280x1024) at 30 fps (NTSC) 1.3MP (1280x1024) at 25 fps (PAL)
Day/Night	Mechanical (ICR) D/N Control
Day/Night Mode	Auto/ Day/ Night
Shutter Time	Range from 1/7s to 1/25,000s
Minimum Illumination	IR LED Off (shutter speed: 1/30 sec): 0.1 Lux @10IRE; 0.5 Lux @50IRE IR LED On: 0 lux
Bit Rate Control	Multi-profile bit rate control: CBR/ VBR/ ECBR/ EVBR

Lens

Lens Type	Built-in; Fixed Lens
Focal Length	f=2.8 mm, F2.0 (Mega pixel lens)
View Angle	H: 64.7°/ V: 52.5°

IR LEDs

LED Quantity	6pcs (850nm)
IR Distance	5 meters (16.40ft.)
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

Audio Communication	One-way audio
Compression	G.711, PCM, 64kHz
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 0~16) level sensitivity; Exposure Level: 15 (level 1~15) level sensitivity
Digital WDR	Yes
Privacy Zone	Yes; customized threshold privacy zone (up to 8)
Image Orientation	Mirror, Flip
Frequency Control	50Hz, 60Hz
Date & Time Stamp	Yes

Intelligent Video & Event Management

Motion Detection	Up to 3 customized threshold detection windows, 101 (0~ 100) detectd object size or level sensitivity
Audio Detection	101 (0~ 100) level threshold
Ethernet Detection	Network Fail detection
Others	Snapshot, digital Zoom, Optimized i-frame setting
Events	Motion detection, Audio detection, External alarm, 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

Local Storage

Memory Card Slot	Micro SD / Micro SDHC Card up to 32 GB
Memory Card Overwrite	Yes

Network

Protocol	IPv4, IPv6, HTTP, HTTPS, SMTP, FTP, DHCP, NTP, TCP/IP, UDP, UPnP, RTSP/RTCP/RTP,DNS,DDNS, PPPoE, IGMP, ICMP, QoS, Bonjour, Samba, Multicast, ARP
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN/WAN, RJ-45
WiFi (optional)	Once WiFi Dongle (802.11n with WPS function) inserted
PoE	IEEE 802.3af, class 3
ONVIF	Yes
Browser	IE Browser 8.0 or above, Chrome, Firefox, Safari
Security	Three-level access with password protection

I/O & Controls

Power	Terminal Block
Power LED Indicator	Yes
Alarm In/Out	Terminal Block 1 in / 1 out
Network	RJ-45 with LEDs (Network indicator)
Audio In/Out	Build in microphone
Reset	Within 5 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, class 3)
Power Consumption	7W

Mechanical

Dimensions (ΦxH)	Φ90 mm x 49 mm (3.54" x 1.93 ")
Weight	160g (0.354 lb)
Battery Backed-up Real-time Clock	Yes; Internal RTC
Pan/Tilt Adjustment	Tilt: from 32° to 90° (Max.)

Environmental

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	20~ 80% RH
Storage Temperature	-10°C ~ 50°C (14°F~122°F)

Regulatory

Approvals	CE, FCC, RoHS

Ordering Information

Model No.	NTSC: NDR721-N1-MES; PAL: NDR721-P1-MES
Accessories	Surface mount: standard package support

Dimensions

49mm (1.96")

90mm (3.60")

36.53mm (1.46")