MESSOA®

NCR870E(H)

1 Megapixel IR Bullet Network Camera

1/2.7" Lumii sensor, H.264, 25M (82ft) IR distance, triple streaming, mechanical ICR day/night, motion detection, IP67

The NCR870E is a compact-designed megapixel IR bullet camera that meets a wide variety of needs for outdoor, discreet surveillance. The high quality IR illuminators built around the lens illuminate the darkest night for as far as 25 meters (82ft). Backed by proprietary Lumii™ Technology, night-time images become sharper and clearer with less noise and more even light intensity. With the IP67-rated waterproof aluminum casing and the optional heater design, the NCR870E ensures reliable operation under severe outdoor environment, making it a versatile solution for diverse installations such as school campus, banking or retail business.

3 year warranty

ONVIF

Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the NCR870E is perfect for capturing images under highly variable lighting conditions between day and night, providing superior color images at day time and noise-free monochrome images at low light to nearly no light environment.

Infrared Illumination

Built in with 24 pieces of IR LED, the NCR870E offers long IR distance up to 25 meters. The uniform light intensity design minimizes aberrations and delivers perfect image quality in low to no light conditions. Images become clearer and brighter while image noise is significantly reduced.

Cost-saving H.264 Technology

The NCR870E supports the H.264 compression standard in multiple streaming. The H.264 greatly reduces the network bandwidth and storage requirement compared to M-JPEG and MPEG4 without compromising the megapixel image quality, while saving significant back-end storage costs.

All Weather Protection

The die-cast aluminum alloy housing is fully compliant with IP67 standards, which protects the camera against extreme weather conditions, making it perfect for outdoor surveillance. An optional heater maximizes protection of surveillance equipment in extremely cold weather.

Specifications

Video

Sensor Type	1/2.7" image sensor optimized for low-light performance
Active Pixels	1280x720P (HxV)
Compression	H.264 / MPEG4 / Motion JPEG
Streaming	Triple simultaneous streams
Resolution	720P, XGA, SVGA, D1, VGA, 2CIF, CIF
Max. Frame Rate	1MP 16:9 (1280x720) at 30 fps (NTSC) and 25 fps (PAL)
Day/Night	Mechanical (ICR) D/N control
Day/Night Mode	Auto
Shutter Time	1/10000s to 1/3.75s selectable (60Hz); 1/10000s to 1/3.125s selectable (50Hz)
Minimum Illumination	IR LED OFF: 1.5 Lux @50IRE (Shutter speed: 1/15 sec) IR LED ON: 0 Lux
Video Output	NTSC: 720 X 480 @30fps; PAL: 720 X 576 @25fps
Bit Rate Control	Primary stream bit rate control: CBR/VBR

Lens

Type, Focal Length, F-number	Built-in Fixed lens, f=3.1 mm, F2.0(Mega pixel lens)
View Angle	H: 77° ±5%/V: 57° ±5%

IR LEDs

LED Quantity	24 pcs (850nm)
IR Distance	25 meters (82ft)
IR turn on status	Under 10 lux by auto control
LED Life	More than 10,000 hours (50°C)

Image Enhancement

Image Settings	AWB, AES, AGC Exposure Mode: Auto/Manual; White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity
Image Orientation	Mirror, Flip
Frequency Control	50Hz, 60Hz
Date & Time Stamp	Yes

Intelligent Video & Event Management

Motion Detection	5 x 5 zones, 5 level sensitivity or customized threshold
Others	Snapshot
Events	Motion Detection
Event Actions	File upload via FTP and SMTP. Notification via email, HTTP and TCP
Store Category	Snapshot

Network

Protocol	IPv4, TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, FTP, RTP, RTSP, RTCP, ICMP, UPnP
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN / WAN, RJ-45
PoE	IEEE 802.3af, Class 3
ONVIF	Yes

Browser	IE browser 6.0 or above
Security	Two-level access with password protection

I/O & Controls

Power	2-pin Terminal Block
Network	RJ-45
Analog Video	BNC X1, 1.0Vp-p, 75Ω
Reset	Within 5 secs to reboot; More than 5 secs to load default

Power

Power Requirement	W/O Heater: DC 12V & AC 24V ± 10% / PoE(IEEE 802.3af); W/ Heater: DC 24V & AC 24V ± 10%
Power Consumption (Max.)	W/O Heater: 8W; W/ Heater: 20W(Heater on), 8W(Heater off)

Mechanical

Dimensions(WxDxH)	70 x 162 x 81.5mm (2.76" x 6.38" x 3.21")
Weight	550g (1.1lb)
Protection	IP67
Battery Backed-up Real-time Clock	Yes; Internal RTC

Environmental

Operating Temperature	W/O Heater: -10°C ~ 50°C (14°F ~ 122°F); W/ Heater: -40°C ~ 50°C (-40°F ~ 122°F)
Operating Humidity	10~ 90% RH
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)

Regulatory

Approvals	CE, FCC, RoHS

Order Information

Model No.	NTSC: NCR870E-HN5-MES(W/O Heater), NCR870EH-HN5-MES(W/ Heater); PAL: NCR870E-HP5-MES(W/O Heater), NCR870EH-HP5-MES(W/ Heater)
Accessories	Wall mount/Ceiling mount with free pack-in bracket

Dimensions

ø91mm (3.58")
ø162mm (6.4")
3.21"
81.5mm (3.21")
ø70mm (2.76")
ø111mm (4.4")

Power
RJ-45 / PoE
BNC