MESSOA®

NCR870S(H)

Full HD 1080p
IR Bullet Network Camera

1/2.7" 2MP Lumii sensor, H.264, 25M (82ft) IR, triple streaming, mechanical ICR day/night, intelligent detections, IP67

The NCR870S(H) is a ready to go infrared (IR) camera that is able to see even in total darkness. 24 high quality IR illuminators built around the lens bring about crystal clear pictures even in the darkest night as far as 25 meters (82 ft). Plus, with IP67-rated all-weather waterproof, aluminum casing, the NCR870S(H) ensures reliable operation in any environment. This camera is ideal for outdoor applications such as convenience stores, streets and parking lots. To cope with extreme weather, the heater model is also available.

3 year warranty

Onvif

Full HD 1080p Images

See clear and detailed, full HD, quality images in all conditions with the NCR870S(H). Unlike traditional megapixel cameras, full HD offers higher resolutions and better frame rates at an international industry standard. Blurry images are reduced and individuals and objects of interest come through in perfect clarity.

Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the NCR870S(H) is ideal for capturing images under highly variable lighting conditions, providing perfect color images at day time and noise-free monochrome images at low light to nearly no light environment.

Intelligent Video Managment

The NCR870S(H) features motion detection function. MegaSmart™ event/ region-specific monitoring enables users to receive alerts upon event and saves storage cost by only recording when a specific event takes place.

Infared Illumination

The built-in 25M (82ft) IR LED lights objects evenly, reducing image noises and storage requirements. The IR illuminator activates automatically when the lighting dims to under 10 lux. In night mode, the illuminator enables the camera to capture images at 0 lux. The high-power LEDs also help minimize energy consumption.

Specifications

Video

Sensor Type	1/2.7" image sensor optimized for low-light performance
Active Pixels	1920x1080 (HxV)
Compression	H.264 / MPEG4 / Motion JPEG
Streaming	Triple simultaneous streams
Resolution	1080p, SXVGA, 720P, XGA, SVGA, D1, VGA, 2CIF, CIF
Max. Frame Rate	2MP 16:9 (1920x1080) at 15 fps (NTSC) and 12.5 fps (PAL) 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	Range from 1/10000s to 1/3.75s selectable (60Hz); Range from 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 (82 ft.)
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 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 sec for rebooting system; more than 5 sec for loading 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)	91mm (3.58") x 244mm (9.61") x 83mm (3.27")
Weight	1000g
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

Ordering Information

Model No.	NTSC: NCR870S-HN5-MES (w/o heater); NCR870SH-HN5-MES (w/ heater) PAL: NCR870S-HP5-MES (w/o heater); NCR870SH-HP5-MES (w/ heater)
Accessories	Easily adjustable 3-axis and cable-concealed bracket with standard package Corner mount: SAD707 (Adapter required) Pole mount: SAD708 (Adapter required)

Dimensions

2013.12.04 version.
MESSOA reserves the right to update this datasheet at any time without notice.
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