MESSOA ®

NCR878
5-Megapixel IR Bullet Network Camera

1/3.2" Lumii Sensor, 5MP, H.264, 20M (65ft)
IR, triple streaming, WDR, Mechanical ICR
day/night, face detection

The NCR878 IR Bullet Network Camera features superior 5-megapixel image sensor optimized for low light performance, delivering the unparalleled image sharpness and view coverage. With the built-in IR LED illuminator, the camera is ideal for outdoor any applications where the need for image quality and details is indispensable. The proprietary Lumii™ Technology further enhances the camera sensitivity to ensure clear and noise-free images in tough lighting conditions. The NCR878 also features the advanced face detection to keep users informed of any unwanted intruder.

Superior Video Quality

See wider view coverage and extreme details in HDTV quality under all lighting conditions day and night. The 5-megapixel network camera is backed by proprietary Lumii™ Technology to optimize its low light performance as every detail comes through in unprecedented clarity.

Intelligent Video Management

The NCR878 features a variety of intelligent detection functions, including motion, face, audio, blur and network disconnection detection. 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.

Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the NCR878 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.

Cost-saving H.264 Technology

The NCR878 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 costs.

Specifications

Image System	
Image Sensor	1/3.2" image sensor optimized for low-light performance
Compression	Triple Streaming: H.264 / MPEG4 / Motion JPEG
Resolution	2592x1944 (5MP), 2048x1536 (3MP), 1080p, SXVGA, 720P, XGA, SVGA, D1, VGA, 2CIF, CIF
Maximum Frame Rates	5MP 4:3 (2592x1944) at 10/10 fps (NTSC/PAL) 3MP 4:3 (2048x1536) at 20/20 fps (NTSC/PAL) 2MP 16:9 (1920x1080) at 30/25 fps (NTSC/PAL)
Day/Night	Mechanical IR Cut Filter (auto.)
Shutter Time	1/10000s to 1/3.75s (60Hz); 1/10000s to 1/3.125s (50Hz)
Minimum Illumination	IR LED OFF: 0.30 Lux @10IRE; 0.60Lux @50IRE (F1.2, Shutter Speed: 1/15sec) IR LED ON: 0 lux
Effective Pixels	NTSC: 720 X 480 @30fps; PAL: 720 X 576 @25fps
Bit Rate Control	CBR/VBR

Lens	
Focal Length, F-number	varifocal lens, f=3~9mm, F=1.2 (Megapixel lens)
View Angle	H: 83°(Wide)~29°(Tele)/ V:62°(Wide)~22°(Tele)
IRIS Control	DC IRIS

IR LED	
LED Quantity	24 pcs (850nm)
IR Distance	20 meters (65ft)
IR Turn On Status	Under 10 lux by auto control
LED Life	More than 10,000 hours (50ºC)

Audio	
Communication	Two-way Mono Audio, Full-duplex
Compression	G.711 PCM 8kHz
Audio In/Out	External microphone/speaker

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
Digital WDR	Yes; 5-level sensitivity
Privacy Zone	Yes; customized threshold privacy zone
Image Orientation	Mirror, Flip
Frequency Control	50/60 Hz
Date/Time Stamp	Yes

Intelligent Video	
Motion Detection	5 x 5 zones, 5-level sensitivity or customized threshold
Face Detection	3-level sensitivity
Audio Detection	5-level sensitivity or customized threshold
Blur Detection	Customized sensitivity in seconds
Ethernet Detection	Network loss detection
Smart Encoding	Configurable ROI for better picture quality
Others	Snapshot, Smart Focus, e-PTZ, Optimized i-frame setting

Event	
Event Trigger	motion detection, face detection, audio detection, blur detection, Ethernet detection, external alarm
Event Management	File upload via FTP, SMTP and SD Card Notification via email, HTTP and TCP External output activation

Local Storage*	
Memory Card	Micro SD/ Micro SDHC Card up to 32 GB
SD Card Overwrite	Yes
SD Card Store Category	Alarm / Motion / Schedule/ Un-interrupt recording

Network	
Ethernet	10Base-T/100Base-TX
Protocol	IPv4, TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, FTP, RTP,RTSP, ICMP, UPnP
PoE	IEEE 802.3af, Class 3
Browser	IE browser 6.0 or above
ONVIF	Yes
Security	Two-level access with password protection

I/O connector	
Power	2-pin terminal block
Alarm In/Out	terminal block 2 in/1 out
Network	RJ-45
Reset	Within 5 secs. for rebooting system; more than 5 secs. for loading default
Audio In / Out	3.5mm phone jack 1 in / 1 out
Video Output	BNC x 1, 1.0Vp-p, 75Ω

Power Supply	
Power Requirement	DC 12V & AC 24V ± 10%/PoE (IEEE 802.3af)
Power Consumption (Max.)	9W

Mechanical	
Dimensions (H x Φ)	300mm x 88mm x 86 mm (11.79inch x 3.47inch x 3.39inch)
Weight	995g (2.2 lb.)
Protection Class	IP67
Regulations	CE, FCC, RoHS

Environmental	
Operating Temperature	-10ºC ~ 50ºC (-14ºF ~ 122 ºF)
Operating Humidity	10~ 90% RH
Storage Temperature	-20ºC ~ 60ºC (-4ºF ~ 140 ºF)

Ordering Information	
Model No.	NTSC: NCR878-HN5-MES PAL: NCR878-HP5-MES
Accessories	Easily adjustable 3-axis and cable-concealed bracket with standard package

*Function not available for models sold in Argentina

Dimensions

Power In (Red+ / Black-)
RJ-45
BNC
Audio Out (Green)
Audio In (Red)
Alarm Out (Orange)
RS485+ (Green)
RS485- (Yallow)
GND (Gray)
Alarm_In1 (Red)
Alarm_In2 (Brown)

300mm (11.79")
88mm (3.47")
86mm (3.39")
177mm (6.98")
287mm (11.29")
⊘74mm (⊘2.91")

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