MESSOA®

NCB855PRO

Full HD 1080p
Fixed Network Camera

1/2.7" 2MP Lumii sensor, H.264, triple streaming, mechanical ICR day/night, WDR, intelligent detection

Lens sold separately

The NCB855PRO Full HD 1080p network camera is equipped with the mechanical (ICR) day/night switch, making it ideal for 24/7 surveillance over the network. It suits any indoor applications where maximum image quality and efficient bandwidth usage is vital. Powered by Lumii™ technology, the high sensitivity sensor ensures clear and noise free images. Meanwhile, crisp images also consume less bandwidth and storage. It also comes with various detection functions to keep users informed upon events. Other supported features include microSD/SDHC card slot, video out, and two-way audio.

Full HD at Full Frame Rates

See clear and detailed, full HD 1080p, quality images in all conditions. Unlike other 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.

Intelligent Video Management

The NCB855PRO features a variety of intelligent detection functions, including motion, audio, blur and network disconnection detection. Event/region-specific monitoring enables users to receive alerts upon event and saves storage cost by only recording when a specific event happens.

Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the camera uses a mechanical way to detect changes in lighting conditions, and then switches between color and B/W modes. It provides perfect color images at day time and crisp monochrome images at night or very dark environment.

Cost-saving H.264 Support

The NCB855E 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

Video

Sensor Type	1/2.7" 2MP sensor optimized for low-light performance
Active Pixels	1920x1080 (HxV)
Compression	H.264, MPEG-4, MJPEG
Streaming	Triple simultaneous streams
Resolution	1080p, SXVGA, 720P, XGA, SVGA, D1, VGA, 2CIF, CIF
Max. Frame Rate	30/25 fps at 1920x1080 (NTSC/PAL)
Day/Night	Mechanical (ICR) D/N Control
Day/Night Mode	Auto, Forced BW, Forced Color, External
Shutter Time	1/10000s to 1/3.75s Selectable (60Hz); 1/10000s to 1/3.125s Selectable (50Hz)
Minimum Illum.	0.08 lux @30IRE; 0.20 lux @50IRE (F1.2, Shutter Speed: 1/15sec)
Video Output	NTSC: 720 X 480; PAL: 720 X 576
Bit Rate Control	CBR/VBR (Primary Stream)
Lens Mount	CS Mount; Adjustable lens back focus

Audio

Audio Comm.	Two-way mono audio, Full-duplex
Compression	G.711, PCM, 8kHz
Audio In/Out	External microphone and speaker

Image Enhancement

Image Settings	AWB, AES, AGC, exposure mode, white balance, backlight compensation, brightness, contrast, sharpness, staturation, digital WDR, privacy zone
Image Orientation	Mirror, Flip
Frequency Control	50Hz, 60Hz
Date & Time Stamp	Yes

Intelligent Video

Motion Detection	5x5 zones, 5 level sensitity or customized threshold
Audio Detection	5 level sensitity or customized threshold
Blur Detection	Customized sensitivity in seconds
Ethernet Detection	Network loss detection
Smart Encoding	Configurable ROI
Others	Smart Focus, e-PTZ

Event

Event Trigger	Motion detection, audio detection, blur detection, Ethernet detection, external alarm
Event Management	File upload via FTP, SMTP and SD Card; Notification via email, HTTP over TCP and external alarm

Local Storage

Memory Card Slot	MicroSD/SDHC card up to 32 GB
Overwrite	Yes
Recording Trigger	Alarm, Event, Schedule

Network

Protocol	IPv4, TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, FTP, RTP,RTSP, ICMP, UPnP
Ethernet	10Base-T/100Base-TX Ethernet, RJ-45, auto-sensing
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
Alarm In/Out	2/1, Terminal Block
Network	RJ-45 with LEDs
Audio In/Out	1/1, 3.5mm phone jack
RS-485	Terminal Block (Reserved)
Analog Video	BNC x 1, 1.0Vp-p, 75 ohm
Reset	Within 5 secs to reboot, ; More than 5 secs to load default

Power

Power Requirement	DC 12V & AC 24V ± 10% / PoE(IEEE 802.3af)
Power Consumption	6W max.

Mechanical

Dimensions(DxH)	114 x 66 x 65 mm (4.5" x 2.6" x 2.6")
Weight	320g (0.70 lb) w/o lens

Environmental

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

Regulatory

Approvals	CE, FCC, RoHS

Order Information

Model No.	NTSC: NCB855PRO-HN5-MES; PAL: NCB855PRO-HP5-MES
Accessories	Wall mount bracket: SAB748-02; Outdoor housing: SAH722/ SAH725; IR illuminator housing: SLI070HB

Dimensions

114mm (4.5") | 66mm (2.6") | 56mm(2.2") | 65mm(2.6")

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