MESSOA®

NDF821

Advanced, Full HD 1080p, Fixed Indoor Dome Network Camera

1/2.7'' 2M Lumii sensor, 1080p, H.264/MPEG4/MJPEG triple streaming, varifocal lens, mechanical day/night, intelligent detection, PoE, ePTZ, micro SD/SDHC card slot, vandal bubble

ONVIF

Lumii™ II
TECHNOLOGY
INSIDE

The NDF821 is a high performance full HD day/night camera featuring 2M image quality and intelligent network capabilities. H.264/MPEG4/MJPEG triple streaming gives you a flexible encoding selection. As part of MESSOA MegaSmart™ IP products family, the NDF821 features various intelligent detection capabilitie, Smart Focus and Smart Encoding. Vari-focal lens, 3-axis and PoE features facilitate simple installation. Other supported features include built-in micro SD/SDHC card slot, video out and two-way audio. This camera is ideal for indoor situations where maximum image quality is vital, such as identifying people or specific objects.

Features

2MP Lumii sensor	TI DSP	Megapixel
H.264 MPEG4 MJPEG	Full HD	Smart Focus
Ethernet Detection	Audio Detection	Blur Detection
Motion Detection	Networking	e-PTZ
0.08 Lux Minimum illumination	ICR	Alarm
PoE	Video Out	2-Way audio
Micro SDHC Card	3 Axis Rotation	

■ Lumii™ II Technology

Our Lumii™ technology delivers high sensitivity images without blur. Lumii™ helps increase the sensitivity and reduces video noise in low light conditions. Night images become bright and clear.

■ Full HD 1080p Images

Clear and detailed full HD quality images in all conditions. Unlike traditional megapixel cameras, 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.

■ Cost-saving H.264 Support

The NDF821 Network Camera supports the H.264 compression standard. H.264 greatly reduces the size of video compared to MJPEG and MPEG4 without compromising image quality. Storage and bandwidth needs are reduced. Plus, H.264 is expected to become the video standard of choice, so your camera is future proofed.

■ PoE Facilitates Easy Installation

Built in support for Power Over Ethernet reduces cost and adds flexibility to the camera. A single cable connection is used to view, power, and control the camera. Installation cost are reduced since there is no need for separate cables.

■ Intelligent Detection Capabilities

The NDF821 has a variety of intelligent detection functions, including motion, audio, blur and network disconnection detection. The Smart Encoding function allows users to encode a specified region of interest (ROI) with higher bit rates for better image quality. Event-specific or region-specific monitoring enables you to receive alerts upon event and saves storage cost by only recording when a specific event happens.

■ ONVIF Compliant

ONVIF is an open industry forum for the development of a global standard for the interface of network video products. The NDF821 supports ONVIF thus allowing interoperability between network video products regardless of brand.

■ Continuous No-Interruption Recording

Record JPEG images or video clips for several days with the built in micro SD/SDHC card slot for up to 32 GB. Keep recording and prevent data loss even when the network goes down. Moreover, the camera's built-in FTP server enables users to view the saved files conveniently from a remote site.

■ Vandal Bubble

The NDF821 comes in a scratch-resistant and tough 3mm thick dome bubble, thus protecting the camera against external impacts and tampering.

Specifications

Image System	
Image Sensor	1/2.7" 2MP image sensor optimized for low-light performance
Image Compression Method	Triple Streaming : H.264 / MPEG4 / Motion JPEG
Maximum Framerate vs. Resolution	HDTV 1080p(1920x1080) at 15 fps (NTSC) and 12.5 fps (PAL)and 2MP 16:9 (1280x720) at 30 fps (NTSC) and 25 fps (PAL)
Lens	Built-in Mechanical IR Cut Filter varifocal lens f=3~9mm, F1.2 (Mega pixel lens)
IRIS Control	DC IRIS
View Angle	H: 93°(Wide)~31.7°(Tele)/V:68.4°(Wide)~23.8°(Tele)
View Angle Adjustment	Pan:0°-355°, Tilt:0°-90°, Rotate:0°-355°

Electric	
Shutter Time	Range from 1/10000s to 1/3.75s selectable (60Hz); Range from 1/10000s to 1/3.125s selectable (50Hz)
Audio	Two-way Mono Audio, Full-duplex, G.711 PCM 8kHz
Alarm	External input
Day/Night Mode	Mechanical (ICR) D/N control; Auto/ Forced BW/ Forced Color/ External
Minimum Illumination	0.08 Lux @10IRE; 0.30Lux @50IRE (shutter speed: 1/15sec)
Video Port	BNC X1, 1.0Vp-p, 75Ω / RCA x 1
Video Output	NTSC: 720 X 480 @30fps; PAL: 720 X 576 @25fps
Image Enhance	Exposure Mode: Auto/Manual; White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable Sharpness, Staturation, Brightness, Contrast: 255 level sensitivity

Feature Brief	
Digital WDR	Yes; 5 level sensitivity
Privacy Zone	Yes; customized threshold privacy zone
Intelligent Video	Audio detection / Blur detection /Ethernet Detection/ Smart Encoding/ Smart Focus/ e-PTZ/ Event Management
Alarm Detection	Motion Detection: 5 x 5 zones, 5 level sensitivity or customized threshold; Audio Detection: 5 level sensitivity or customized threshold; Blur Detection: customized threshold; External Input
Alarm Event	File upload via FTP, SMTP and micro SD/SDHC Card; Notification via email, HTTP and TCP; External output activation Video and audio recording to micro SD/SDHC Card
Image Orientation	Mirror, Flip
Bit Rate Mode	Primary stream bit rate control: CBR/VBR

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

Power supply	
Power Requirement	DC 12V & AC 24V ± 10% / PoE(IEEE 802.3af)
Power Connector	Screwless Terminal block
Power Consumption (Max.)	5W

Environment	
Operating Temperature	-10ºC ~ 50ºC (-14ºF ~ 122 ºF)
Operating Humidity	10~ 90% RH
Storage Temperature	-20ºC ~ 60ºC (-4ºF ~ 140 ºF)
Regulatory	CE, FCC, RoHS

Network	
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN / WAN, RJ-45
Internet Protocol	IPv4, TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, FTP, RTP,RTSP, ICMP, UPnP
Browser	IE browser 6.0 or above

I/O connector	
Alarm Port	Terminal block 2 in / 1 out
Audio In / Out port	3.5mm Phone Jack x 2
Reset	Within 5 sec for rebooting system; more than 5 sec for loading default

Mechanism	
Dimensions(ΦxH)	Φ138 mm x 101 mm (Φ5.43" x 3.98")
Weight	1.13kg (2.5lb)
Order Information	NTSC model: NDF821-HN5-MES;
	PAL model: NDF821-HP5-MES

Accessory	
Mount Type	Surface mount: standard package support; Pendent mount: SAB755M Wall mount: Bracket SAB755, SAB749-W1

Dimensions

ø138mm (5.43")
ø36mm (1.42")
ø101mm (3.98")
ø108mm (4.25")

Power in (Red+ / Black-)
RJ-45 (Ethernet Connector)
BNC
Audio out (Green)
Audio in (Red)
Alarm out (Orange)
Reserved (Green)
Reserved (Yellow)
GND (Gray)
Alarm in 1 (Red)
Alarm in 2 (Brown)