NDF821E

1 Megapixel Indoor Dome Camera

1/2.7" Lumii sensor, H.264, triple streaming, mechanical ICR day/night, intelligent detections, microSD/SDHC card slot

The NDF821E is a versatile, compact solution with a dome profile for discreet indoor surveillance demanding both excellent image quality with efficient bandwidth usage. The use of H.264 codec consumes very little network bandwidth and requires minimal data storage without compromising the superior video quality. Powered by proprietary Lumii™ technology, the high sensitivity sensor ensures clear and noise-free images with uniform illumination across the covered scene. Other supported features include intelligent detections, microSD/SDHC card slot, alarm in/out, and two-way audio.

Versatility with PoE

Built-in support for Power over Ethernet (PoE) reduces cost and adds flexibility to the camera. It facilitates easy installation as only a single cable connection is required to view, power, and control the camera. Installation cost and space are reduced since there is no need for separate cables.

Intelligent Video Management

The NDF821E features a variety of intelligent video detections, event management and smart encoding, allowing event/region-specific monitoring that help inform security staff right when the event takes place, while reducing network and storage loads as only relevant video streams will be recorded.

Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the NDF821E 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.
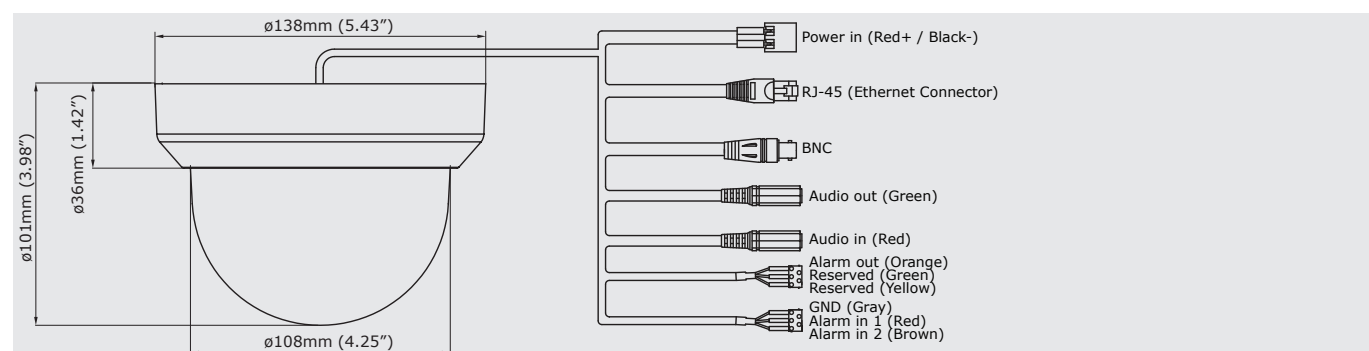
Cost-saving H.264 Technology

The NDF821E 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" 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/ Forced BW/ Forced Color/ External
Shutter Time	Range from 1/10000s to 1/3.75s selectable (60Hz); Range from 1/10000s to 1/3.125s selectable (50Hz)
Minimum Illumination	0.08 Lux @10IRE; 0.30 Lux @50IRE (Shutter speed: 1/15 sec)
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 Mechanical IR Cut Filter varifocal lens, f=3~9mm, F1.2 (Mega pixel lens)
View Angle	H: 93°(Wide)~31.7°(Tele)/ V:68.4°(Wide)~23.8°(Tele)
View Angle Adjustment	Pan:0°-355°(Max.), Tilt:0°-90°(Max.), Rotate:0°-355°(Max.)
IRIS Control	DC IRIS

Audio

Audio Communication	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: 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	50Hz, 60Hz
Date & Time Stamp	Yes

Intelligent Video & Event Management

Motion Detection	5 x 5 zones, 5 level sensitivity or customized threshold
Audio Detection	5 level sensitivity or customized threshold
Blur Detection	customized threshold
Ethernet Detection	Network loss detection
Smart Encoding	Configurable ROI for better picture quality
Others	Snapshot, Smart Focus, e-PTZ

Events	Motion detection, audio detection, blur detection, ethernet detection, external alarm
Event Actions	File upload via FTP, SMTP and SD Card; Notification via email, HTTP and TCP External output activation; Video and audio recording to SD Card
Store Category	Alarm / Motion / Schedule / Un-interrupt recording; Stores video clips and snapshots

Local Storage*

Memory Card Slot	MicroSD/SDHC Card up to 32 GB
Memory Card Overwrite	Yes

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
Alarm In/Out	Terminal block 2 in / 1 out
Network	RJ45
Audio In/Out	3.5mm phone jack 1 in / 1 out
Analog Video	BNC X1, 1.0Vp-p, 75Ω / RCA x 1
Reset	Within 5 sec for rebooting system; more than 5 sec for loading default

Power

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

Mechanical

Dimensions(ΦxH)	Φ138mm x H101mm (5.43" x 3.98")
Weight	1.13kg (2.5lb)
3-Axis	Pan: 0°-355°, Tilt: 0°-90°, Rotate: 0°-355°
Battery Backed-up Real-time Clock	Yes; Internal RTC

Environmental

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

Order Information

Model No.	NTSC: NDF821E-HN5-MES; PAL: NDF821E-HP5-MES
Accessories	Surface mount: standard package support; Pendent mount: SAB755M; Wall mount: Bracket SAB755, SAB749-W1

*Function not available for models sold in Argentina

Dimensions

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

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)