NDF821PRO

Full HD 1080p Indoor Dome Camera

1/2.7" Lumii sensor, triple streaming, full frame rate, dual H.264 streams, mechanical ICR day/night, intelligent detections

The NDF821PRO Full HD Network Camera offers greater coverage with real-time 1080p video quality up to 30fps, twice as many than its predecessor, providing users with exceptional image clarity, smooth video display, and simply a better viewing experience. Featured H.264 dual streaming reduces costs while improving performance. Powered by the proprietary Lumii™ Technology, the high sensitivity sensor ensures clear and noise-free images across the covered scene in low light conditions. The camera also features intelligent detections, memory card slot, alarm in/out, and two-way audio, making it a versatile yet cost-effective solution for most indoor surveillance projects.

Full HD, Full Frame Rate

With Full HD quality images up to 30 frames per second, the camera offers greater resolutions, more coverage, and much smoother video display, providing exceptional details and better chances for identification. Blurry images are reduced as objects of interest come through in perfect clarity 24/7.

Intelligent Video Management

The camera features a variety of intelligent video detections (e.g. face detection), 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.

True Day/Night with Mechanical ICR

The camera is perfect for capturing images under highly variable lighting conditions between day and night, providing superior color images at day time and sharp, noise-free monochrome images in low light to nearly no light environment.

H.264 Dual Streaming

With triple streaming, the camera supports 2 independent H.264 streams simultaneously. This advanced technology greatly saves costs by reducing bandwidth and storage requirement while improving the overall system performance.
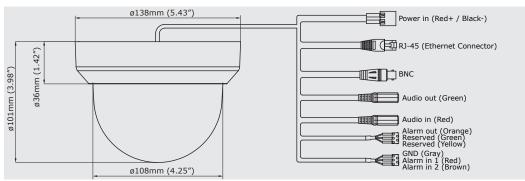
Specifications

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 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	1/10000s to 1/3.75s selectable (60Hz); 1/10000s to 1/3.125s selectable (50Hz)
Min. Illumination	Color: 0.1 Lux @10IRE; 0.80 Lux @50IRE (Shutter speed: 1/15 sec) B/W: 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

IRIS Control	DC IRIS
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.)

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
Face Detection	3 level sensitivity
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, Optimized i-frame setting
Events	Motion detection, face 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	Micro SD / Micro 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.)	6W

Mechanical

Dimensions(ΦxH)	Φ138 mm x 101 mm (Φ5.43" x 3.98")
Weight	1.13kg (2.5 lb)
3-Axis	Pan:0°-355°(Max.), Tilt:0°-90°(Max.), Rotate:0°-355°(Max.)
Battery Backed-up Real-time Clock	Yes; External RTC

Environmental

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

Regulatory

Approvals	CE, FCC, RoHS

Order Information

Model No.	NTSC: NDF821PRO-HN5-MES; PAL: NDF821PRO-HP5-MES
Accessories	Surface mount: standard package support Pendent mount: SAB755M Wall mount: Bracket SAB755, SAB749-1W

*Function not available for models sold in Argentina

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)