



# NDF831E(H)

1 Megapixel Outdoor Dome Camera

1/2.7" Lumii sensor, H.264, triple streaming, mechanical ICR day/night, intelligent detections, microSD/SDHC card slot, IP67, IK10

The NDF831E is a versatile megapixel dome camera with mechanical (ICR) day/night switch, which is ideal for round-the-clock surveillance. Proprietary Lumii™ Technology further enhances its sensitivity to capture sharper, clearer images under low light. The camera features intelligent detections to keep users informed of any abrupt event. It also supports local storage to a microSD/SDHC card to ensure nothing is missed in case of network failure. Vandal-resistant and waterproof, along with an optional heater, the NDF831E can withstand the most extreme impact and weather conditions in any outdoor environment.



## Mechanical IR Cut Filter

Featuring IR Cut Filter Removable (ICR) function, the NDF831E is perfect for capturing images under highly variable lighting conditions between day and night, providing superior color images at day time and noise-free monochrome images at low light to nearly no light environment.



## Cost-saving H.264 Technology

The NDF831E 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.



## Intelligent Video Management

The NDF831E features a variety of intelligent detection functions, including motion, 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.



## Vandal- and weather-resistant housing design

The die-cast aluminum alloy housing is fully compliant with IP67 and IK10 standards, which protects the camera against some extreme weather and impacts, making it perfect for outdoor surveillance. An optional heater maximizes protection of surveillance equipment in extremely cold weather.

## 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	
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	RJ-45
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	W/O Heater: DC 12V & AC 24V ± 10% / PoE(IEEE 802.3af); W/ Heater: DC24V/AC24V± 10%
Power Consumption (Max.)	W/O Heater: 5W ; W/ Heater 18W (Heater ON) 5W (Heater OFF)
Mechanical	
Dimensions(ΦxH)	Φ141mmx 121mm (5.55" x 4.76")
Weight	1.3kg (2.87lb)
3-Axis	Pan:0°-355°, Tilt:0°-90°, Rotate:0°-355°
Protection	IP67, IK10, vandal-proof
Battery Back-up Real-time Clock	Yes; Internal RTC
Environmental	
Operating Temperature	W/O Heater: -10°C ~ 50°C (-14°F ~ 122°F); W/ Heater: -40°C ~ 50°C (-40°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: NDF831E-HN5-MES(W/O Heater), NDF831EH-HN5-MES(W/ Heater); PAL: NDF831E-HP5-MES(W/O Heater), NDF831EH-HP5-MES(W/ Heater)
Accessories	Surface mount: standard package support; Pendent mount: thread 1; Wall mount:Bracket SAB755BP

\*Function not available for models sold in Argentina

## Dimensions

