MESSOA

NID321
1-Megapixel Indoor Dome Camera

1/4" Lumii sensor, H.264, triple streaming, WDR, 3DNR, ICR day/night, SDXC/SDHC card slot

The NID321 is a professional 1-megapixel IP dome camera designed for detail-demanding indoor surveillance, delivering high quality live view and recorded footage with superior high definition video up to 30fps. A true day/night camera, the NID321 features improved sensitivity backed by proprietary low light technology and 3DNR to provide unprecedented image clarity under the cover of darkness. The NID321 also features easy, flexible installation with 3-axis lens adjustment, as well as the enhanced Ultra WDR and local storage to make it a versatile solution for diverse indoor surveillance applications.

3 year warranty

ONVIF

True Day/Night with Mechanical ICR

Featuring IR Cut Filter Removable (ICR) function, the camera is perfect for capturing truer color images at day time by filtering out IR. At night, IR is allowed for the camera working in B/W mode and being more sensitive to IR, thereby capturing clearer monochrome images.

3D Noise Reduction

The 3DNR technology takes traditional DNR a step further, removing digital artifacts and grainy appearance from frame to frame, while maintaining image sharpness at low light settings, which results in more efficient bandwidth utilization and less storage space consumption.

Ultra Wide Dynamic Range

Compared with standard WDR, the new-generation WDR features sophisticated algorithm to further expand its dynamic range of the lighting conditions. It allows the camera capturing greater scene details in high contrast settings or in scenes with extremely bright and dark areas.

Easy Installation with 3-axis Adjustment

An ideal feature for wide-area surveillance, the 3-axis angle adjustment makes camera installation easy, allowing installers to adjust the camera's direction and to level the image with ease whether it's mounted on walls or on ceilings.

ONVIF Profile G Compliant

Profile G refines the interoperability between live video, video storage and recording. NID321 can be integrated with third-party video management systems of Profile G specification, and support SD/mSD card on-board video storage, search and retrieval capabilities, and media playback.

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Specifications

Video

Sensor Type	1/4" progressive scan CMOS sensor
Active Pixels	1280 x 800 (HxV)
Compression	H.264 / MJPEG
Streaming	Triple simultaneous streams with multiple video profile
Resolution	720P, SVGA(800x 600), VGA(640x480), 640x360, QVGA(320x240), 320x180
Max. Frame Rate	HDTV 720p (1280x720) at 30 fps (NTSC) and 25 fps (PAL)
Day/Night	Mechanical (ICR) D/N Control
Day/Night Mode	Auto/ BW/ Color
Shutter Time	1/10,000s to 1/7.5s Selectable (60Hz); 1/10,000s to 1/6.25s Selectable (50Hz)
Minimum Illumination	Color: 0.1 lux at 50 IRE, 0.02 lux at 10 IRE, F1.4; B/W: 0.02 lux at 50 IRE, 0.004 lux at 10 IRE, F1.4 (Shutter speed: 1/15 sec)
Video Output	NTSC: 720x480 @30fps; PAL: 720x576 @25fps
Bit Rate Control	CBR, VBR

Lens

Lens Type	Built-in; Varifocal
Focal Length	f=2.8~10mm, F1.4
Focus / Zoom	Manual
View Angle	H: 68°(Wide)~23°(Tele)
IRIS Control	DC IRIS

Audio

Audio Communication	Two-way Audio
Compression	G.711 PCM 8kHz, a/µ-law support
Audio In/Out	External microphone and speaker

Image Enhancement

Image Settings	AES, AWB, AGC Exposure Mode: AES / ALC / Flickerless / Manual; White Balance: Auto / Manual; Backlight Compensation Configurable Brightness, Contrast, Hue, Saturation, and Sharpness Gamma Correction
WDR	Enhanced Digital WDR
DNR	Configurable 3DNR setting
Privacy Zone	Yes, up to 8 privacy zones
Image Orientation	Mirror, Flip
Frequency Control	NTSC(60Hz)/ PAL(50Hz)
Date & Time Stamp	Yes

Intelligent Video & Event Management

Motion Detection	Yes, 3-level sensitivity
Ethernet Detection	Network loss detection
Others	Optimized i-frame (GOP) setting
Events	Motion detection, ethernet detection, external alarm
Event Actions	Event snapshot to remote FTP storage/ email recipients, Edge recording to SD card, HTTP event query, HTTP event client pulling
Store Category	Event snapshot, Edge recording, Manual Snapshot, Manual Recording

Local Storage*

Memory Card Slot	SDXC/SDHC card support
Memory Card Overwrite	Yes

Network

Protocol	ARP, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, RTSP/RTCP/RTP, QoS, SMTP, SNMP, TCP, UDP, UPnP, IEEE802.1X
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN / WAN, RJ-45
ONVIF	ProfileG, Profile S
Browser	Internet Explorer, Chrome, Firefox, Safari
Security	Multiple user access levels with password protection; IP address filtering IEEE 802.1X network access control, HTTPS encryption, and digest authentication

I/O & Controls

Power	2-pin Terminal block/ Female RJ-45 10BASE-T/100BASE-TX PoE
Power LED Indicator	System power and status indicator
Alarm In/Out	Terminal block 1 in / 1 relay out(30V, 1A)
Network	RJ-45 with LED Indicator
Audio In/Out	Terminal block 1 in / 1 out
Analog Video	1 x composite video out, micro JST
System Reboot	Reset x 1
Factory Default	Default x 1, pressing 5 sec for loading factory default

Power

Power Requirement	DC 12V & AC 24V ± 10% / PoE (IEEE 802.3af, class 0)
Power Consumption (Max.)	6W

Mechanical

Dimensions(ΦxH)	Φ125mm x 106mm (Φ4.92" x 4.18")
Weight	500g (1.1 lb)
3-Axis	Yes
Pan/Tilt Adjustment	Pan: 0°-350°, Tilt: 15°-90°, Rotate: 0°-350°(Max.)

Environmental

Operating Temperature	-10ºC ~ 50ºC (-14ºF ~ 122ºF)
Operating Humidity	90% RH, non-condensing
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)

Regulatory

Approvals	CE, FCC, RoHS

Ordering Information

Model No.	NTSC: NID321-N5-MES; PAL: NID321-P5-MES
Accessories	Surface mount: standard package support

*
1. Memory card not included.
2. No memory card clot & local storage function for Argentina and Ecuador

Dimensions

125 mm (4.92")
106 mm (4.17")
83 mm (3.26")
93 mm (3.66")