



NDF820PRO Full HD 1080p Indoor Dome Camera

1/2.7" Lumii sensor, triple streaming, full frame rate, dual H.264 streams, digital day/night, intelligent detections, vandal-bubble

The NDF820PRO 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. Backed by the proprietary Lumii[™] Technology, the camera sensitivity is further enhanced to deliver sharp, detailed images in Low Light conditions. The camera also features WDR, ePTZ, and intelligent video detections, making it a versatile yet cost-effective solution for most indoor surveillance installations.





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.



PoE Facilitates Easy Installation

Built-in support for Power over Ethernet (PoE) reduces installation cost while adding flexibility by eliminating the need for power outlets at the camera location. A single cable connection is used to view, power, and control the camera. Overall costs are reduced since there is no need for separate cables.



Intelligent Video Management

The camera 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.



H.264 Dual Streaming

With triple streaming, the camera supports 2 independent H.264 streams simultaneously. This advanced technology greatly saves costs by lowering 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 | Digital D/N Control |
| Day/Night Mode | Auto |
| Shutter Time | 1/10000s to 1/3.75s selectable (60Hz); 1/10000s to 1/3.125s selectable (50Hz) |
| Min. Illumination | f=4mm, F1.5 lens: 0.1 Lux@10IRE; 0.4 Lux @50IRE (Shutter speed: 1/15 sec) f=2.8mm, F2.0 lens: 0.18 Lux@10IRE; 0.71 Lux @50IRE (Shutter speed: 1/15 sec) f=8mm, F1.8 lens: 0.15 Lux@10IRE; 0.6 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 | f=4mm, F1.5 (selectable) f=2.8mm, F2.0 (selectable) |
| View Angle | f=4mm, F1.5 lens: H: 65.4°/V:49.9° f=2.8mm, F2.0 lens: H: 110°/V:81.5° |
| View Angle Adjustment | Pan:0°-355°(Max.), Tilt:0°-90°(Max.), Rotate:0°-355°(Max.) |
| Image Enhancem | nent |
| | AWB, AES, AGC |
| Image Settings | Exposure Mode: Auto/Manual; White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity |
| Image Settings Digital WDR | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level |
| | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity |
| Digital WDR Privacy Zone | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity |
| Digital WDR Privacy Zone Image Orientation | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip |
| Digital WDR Privacy Zone Image Orientation Frequency Control | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes & Event Management |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video & Motion Detection | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes Event Management 5 x 5 zones, 5 level sensitivity or customized threshold |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video & Motion Detection Face Detection | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes Event Management 5 x 5 zones, 5 level sensitivity or customized threshold 3 level sensitivity |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video 8 Motion Detection Face Detection Blur Detection | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes Event Management 5 x 5 zones, 5 level sensitivity or customized threshold 3 level sensitivity Customized threshold |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video 8 Motion Detection Face Detection Blur Detection Ethernet Detection | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivityYes; 5 level sensitivityYes; customized threshold privacy zoneMirror, Flip50Hz, 60HzYes Event Management 5 x 5 zones, 5 level sensitivity2 level sensitivityCustomized thresholdNetwork loss detection |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video 8 Motion Detection Face Detection Blur Detection Ethernet Detection Smart Encoding | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivityYes; 5 level sensitivityYes; customized threshold privacy zoneMirror, Flip50Hz, 60HzYes Event Management 5 x 5 zones, 5 level sensitivity2 level sensitivityCustomized thresholdNetwork loss detectionConfigurable ROI for better picture quality |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video 8 Motion Detection Face Detection Blur Detection Ethernet Detection | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivityYes; 5 level sensitivityYes; customized threshold privacy zoneMirror, Flip50Hz, 60HzYes Event Management 5 x 5 zones, 5 level sensitivity2 level sensitivityCustomized thresholdNetwork loss detection |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video & Motion Detection Face Detection Blur Detection Ethernet Detection Smart Encoding Others | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity Yes; 5 level sensitivity Yes; customized threshold privacy zone Mirror, Flip 50Hz, 60Hz Yes Event Management 5 x 5 zones, 5 level sensitivity or customized threshold 3 level sensitivity Customized threshold Network loss detection Configurable ROI for better picture quality Snapshot, Smart Focus, e-PTZ, Optimized i-frame setting Motion detection, Ethernet detection, |
| Digital WDR Privacy Zone Image Orientation Frequency Control Date & Time Stamp Intelligent Video & Motion Detection Face Detection Blur Detection Ethernet Detection Smart Encoding Others Events | White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivityYes; S level sensitivityYes; customized threshold privacy zoneMirror, Flip50Hz, 60HzYes & Event Management 5 x 5 zones, 5 level sensitivityCustomized threshold3 level sensitivityCustomized thresholdNetwork loss detectionConfigurable ROI for better picture qualitySnapshot, Smart Focus, e-PTZ, Optimized i-frame settingMotion detection, Ethernet detection, face detection, blur detectionFile upload via FTP and SMTP. |

| 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 |
| Network | RJ45 |
| 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°, Tilt:0°-90°, Rotate:0°-355° |
| 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: NDF820PRO-HN5-MES, NDF820PRO-HN5-28-MES; PAL: NDF820PRO-HP5-MES, NDF820PRO-HP5-28-MES |
| Accessories | Surface mount: standard package support Pendent mount: SAB755M Wall mount: Bracket SAB755, SAB749-W1 |
| | |

Dimensions

