



## NFC31-IRWG Megapixel Night-Vision Network Camera

H.264 + MPEG4 + Motion-JPEG Multi-Streaming, Audio, 1.3 Megapixel CMOS, 720p HD, 54 Mbps Wireless 802.11g

Part No.: **551052**

The INTELLINET NETWORK SOLUTIONS NFC31-IRWG Megapixel Night-Vision Network Camera is designed for security surveillance applications, and comes fully equipped with state-of-the-art features that set it apart from other network cameras on the market today.

### Excellent Video Quality in Megapixel Resolution

The NFC31-IRWG Network Camera is equipped with a 1.3 megapixel image sensor that generates crystal-clear images in resolutions of up to 1280 x 1024 pixels, providing a much more detailed video. Thanks to the use of progressive-scan technology, jagged lines caused by regular interlacing image sensors (flickering effect on moving objects) have been all but eliminated. In addition, the popular 720p widescreen 16:9 video mode is also supported.

### Multi-Streaming: Simultaneous H.264 + MPEG4 + 3GPP + Motion-JPEG Streaming

The NFC31-IRWG Network Camera provides better image quality while consuming less network bandwidth thanks to the integrated H.264 video compression. The NFC31-IRWG Network Camera also supports MPEG4 and Motion-JPEG video formats, providing superior quality and, at the same time, continuing to support existing applications. Finally, 3GPP mobile phone streaming is provided for easy on-the-road connectivity with your 3GPP-enabled mobile phone.

### Surveillance 24 Hours a Day, Even in Complete Darkness

This camera is equipped with an IR lens which automatically engages as the light levels drop. The camera also supports third-party IR illumination, allowing for the surveillance of larger areas.

### Wireless 802.11g and 100Base-TX

Go wireless or wired. The camera supports WEP, WPA and WPA2 encryption for wireless security, and you can connect a higher-gain antenna to extend the wireless transmission range.

### Auto-Setup

No need to worry about complex network setup procedures. The installation wizard provides an easy setup that allows a non-technical person to begin using the camera right away.

### SSL Encryption

Secure network connections using data encryption between the camera and the network client for additional data security.

### Bi-Directional Audio Support

Attaching a microphone and loudspeakers to the NFC31-IRWG Network Camera will allow you to listen and talk using the two-way audio support. On top of that, the camera is equipped with an internal microphone. This is ideal for most security and surveillance applications. Add to that the integrated audio detection and you are taking video surveillance to a whole new level.

### Integrated DDNS Client

Utilize the free DYNDNS service (like DYNDNS.org) in order to connect to your camera, even if you do not have a static IP address assigned by your ISP (Internet service provider). This feature lets you easily set up a URL that can be used to access the camera

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through the Internet using any Web browser.

## Features:

- 1.3 Progressive-Scan Megapixel CMOS image sensor for crystal-clear images
- Supports image resolutions up to 1280 x 1024 (1.3 Megapixel) or 1280 x 720 (720p)
- Supports simultaneous H.264, MPEG4 and Motion-JPEG image compression
- Excellent image quality with 30 fps full-motion video in VGA and 15 fps video in 1.3 Megapixel resolution
- Supports 54 Mbps Wireless 802.11g with WEP, WPA & WPA2 encryption
- Audio support, full duplex, up to 8 kHz, with integrated microphone
- Integrated motion detection with pre- and post-alarm image/video buffering
- Supports audio detection with adjustable threshold
- For surveillance in low light or nighttime conditions, minimum 0 lux (complete darkness)
- Equipped with an IR lens with 12 IR LEDs and one IR sensor
- IR sensitive, supports external IR Illuminators
- Event-triggered FTP and e-mail upload of still images and videos
- Supports local network storage: Can write video clips directly to a network attached storage (NAS) drive
- NAS storage supports cyclic recording, automatically overwriting older files once the allocated storage space is exceeded
- Supports SMB/CIFS (Windows) and NFS (Linux) network file systems
- External microphone input connector
- External speaker output connector
- Terminal block for external sensors or external alarm devices
- Selectable video buffer for smoother video streaming
- Controllable frame rate
- Mobile phone streaming live video through 3GPP / ISMA / RTSP
- Mobile phone live image through 2.5 WAP
- Supports privacy zone and text overlay functionality
- H.264 + MPEG4 + Motion-JPEG + 3GPP mobile phone streaming, audio and 10x digital zoom
- Supports HTTPS encryption and IP filter for enhanced security
- Supports UPnP with UPnP port forwarding capability
- Integrated e-mail, FTP, DDNS and DHCP client
- Video access through any standard Web browser
- Easy-to-use 16-channel camera viewing and recording utility included (not compatible with NSC10 and NSC18 cameras)
- Three-Year Warranty

## Specifications:

### Standards

- » IEEE 802.11b (11 Mbps Wireless LAN)
- » IEEE 802.11g (54 Mbps Wireless LAN)
- » IEEE 802.3 (10Base-T Ethernet)
- » IEEE 802.3u (100Base-TX Fast Ethernet)

### General

- » 32-bit ARM9 RISC CPU
- » 8 MByte flash memory
- » 128 MByte SDRAM
- » Supported image resolutions: 1280 x 1024 (SXGA 5:4), 1280 x 720 (720p HDTV), 640 x 480 (VGA) and 320 x 240 (QVGA)
- » Supported video compression formats:
  - Motion-JPEG
  - MPEG4 Part2 (ISO/IEC 14496-2), Profile: SP
  - H.264-BP
  - 3GPP
- » Video frame rate:
  - Up to 15 fps at 1280 x 1024 and 1280 x 720
  - Up to 30 fps at 640 x 480 and 320 x 240
- » Audio support:
  - Full duplex

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- Bandwidth: G.711 ?-law, A-law and AMR
- Microphone: built-in
- Audio input: 3.5 mm (1/8") microphone input jack
- Audio line out jack: 3.5 mm (1/8")
- » Uni- and Multicast
- » Protocols supported: TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP, RTSP, RTP, HTTP, TCP, UDP, 3GPP / ISMA / RTSP, Bonjour
- » Certifications: FCC Class B, RoHS, CE

#### Network

- » LAN connector: RJ45 port to connect to 10/100 Mbps Ethernet

#### Wireless

- » Data rates:
  - IEEE 802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
  - IEEE 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
- » Data encryption: WEP (64-bit & 128-bit), WPA- and WPA2-PSK (with TKIP and AES authentication)
- » Antenna: single detachable dipole antenna with RP-SMA connector, 2 dBi gain
- » Operation modes: Infrastructure, Ad Hoc

#### Image Sensor and Lens

- » 1/4" Micron Progressive Scan CMOS sensor
- » 1.3 megapixel resolution (1,280 H x 1,024 V)
- » S/N ratio: 44 dB (max.)
- » Pixel size: 6.0 µm x 6.0 µm
- » Manual brightness, contrast, saturation, sharpness and exposure control
- » Minimum illumination: 0 lux with IR LEDs on
- » 12 IR LEDs, effective range 10 m (30 ft.)
- » IR wavelength: 850 nm
- » Mechanical IR cut filter with 3 settings: On, Off and Auto (with adjustable threshold)
- » Focal length 4.2 mm, angular field of view 46° (horizontal), object distance 0.2 m to infinity
- » Maximum relative aperture F1.8

#### Users and Security

- » 10 user accounts
- » 3 different access levels: administrator, operator and viewer
- » Password-protected access to the video streams, or access without password
- » HTTPS (SSL v3)
- » IP address filter: Allow or Deny
- » 10 simultaneous connections

#### Power

- » External power adapter: 12 V DC, 1.0 A
- » Power consumption: 5 Watts (maximum)

#### LEDs

- » Power
- » Network connection
- » Camera operation

#### Environmental

- » Dimensions: 71 (W) x 128 (L) x 42 (H) mm (5 x 2.8 x 1.6 in.)
- » Weight: 0.9 kg (2.0 lbs.)
- » Operating temperature: 0 – 50°C (32 – 122°F)
- » Operating humidity: 20 – 80% RH, non-condensing
- » Storage temperature: 0 – 60°C (0 – 149°F)

#### System Requirements

- » Pentium 4 2.8 GHz (or equivalent AMD)
- » 256 MB RAM video card
- » Windows 2000, XP, Vista, Windows 7, Linux, Mac OS X Leopard 10.5
- » Computer with network connection
- » Web browser support:
  - MS Internet Explorer 6.0 or higher (ActiveX)
  - Mozilla Firefox 3.x (Java)
  - Safari (Java)

#### Package Contents

- » NFC31-IRWG Megapixel Night-Vision Network Camera
- » User manual
- » Camera mounting bracket
- » External power adapter
- » Software CD
- » Antenna

