NFC16-WG Megapixel HD Network Camera

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

Part No.: 551083

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The Intellinet Network Solutions NSC16-WG Megapixel Network Camera is the ideal camera for home-network-based video streaming. Enjoy stunning high-definition H.264 video at home or remotely over the Internet!

Excellent Video Quality in Megapixel Resolution
The NSC16-WG 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 NSC16-WG Network Camera provides better image quality while consuming less network bandwidth thanks to the integrated H.264 video compression. The NSC16-WG 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.

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 NSC16-WG 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.

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
- Audio support, full duplex, up to 8 kHz, with integrated microphone
- Integrated multi-window motion detection
- Supports audio detection with adjustable threshold
- Day/Night mode with 6 white LEDs for a range of up to 5 m (15 ft.)
- Supports 54 Mbps Wireless 802.11g with WEP, WPA & WPA2 encryption
- 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 speaker output connector
- 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, NSC11 and NSC18 cameras)

- Ultra-compact and easy to install
- 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
  - Bandwidth: G.711 µ-law, A-law and AMR
  - Microphone: built-in
  - 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, SMB, CIFS, NFS
- 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 (1280 H x 1024 V)
- S/N ratio: 44 dB (max.)
- Pixel size: 6.0 µm x 6.0 µm
- Manual brightness, contrast, saturation, hue control
- Day/Night function: 6 White LEDs with a range of up to 5 m (15 ft.)
- Minimum illumination: 0.5 lux at F2.0, 0 lux with white LEDs on
- 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: 12 Watts (maximum)

LEDs
- Power
- Network connection
- Camera operation

Environmental
- Dimensions: 104 (W) x 63 (L) x 35 (H) mm (3.8 x 2.3 x 1.2 in.)
- Weight: 0.9 kg (2.0 lbs.)
- Operating temperature: 0 – 45°C (32 – 113°F)
- Operating humidity: 20 – 80% RH, non-condensing

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

- NSC16-WG Megapixel Network Camera
- User manual
- Camera mounting bracket
- External power adapter
- Software CD
- Antenna