



**HOME SERIES**

PRODUCT DATA

Model: N13102  
N13103



## MEGAPIXEL CAMERA FOR HOME AND OFFICE SURVEILLANCE

The N13102/N13103 are compact network cameras designed for building high-quality surveillance systems over a local network and allow users to watch stream from the cameras anywhere in the world over the Internet. It is possible to build a surveillance system based on wired as well as wireless connection over Wi-Fi (for the N13103) since the N13103 is equipped module for wireless data transmission.

Nowadays, the demands for surveillance cameras' higher image quality continue to grow. To meet all the high quality standards applying to surveillance cameras today, the N13102/N13103 cameras are equipped with high-sensitivity progressive scan megapixel CMOS sensor, which ensures very crisp and detailed image up to 1280x1024 resolution, which allow identification of persons in offices, apartments, etc. The progressive scan technology provides clear images for both moving objects and still portions of the image.

The cameras support simultaneous MJPEG, MPEG-4, H.264, and 3GPP streaming. User can select a suitable encoding format optimal for effective bandwidth consumption or delivering higher quality image. H.264/MPEG-4 encoding formats allow compressing video much more effectively than other encoding formats and require less bandwidth, which allows this camera to be effectively used in low-speed networks. MJPEG provides best image quality and uses minimum compression, but increases bandwidth consumption and requires more disk space.

The N13102/N13103 feature recording to network attached device, to memory card, sending alert e-mails, and recording to FTP server. These cameras offer a built-in web server, which allows these cameras to be connected to a local network or to the Internet and allows users to manage and view images from the camera using a browser (with ActiveX support) as well as using surveillance software.

*Built-in microphone  
and two-way audio  
support*

*Recording to network  
attached storage  
without using software*

*Wi-Fi 802.11b/g/n  
(supports WPS)  
for N13103*

*Built-in multi-zone  
motion detection and  
audio detection*

*Model: N13102  
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**Compact camera with megapixel  
CMOS sensor and built-in microphone**

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### PRODUCT DATA

- Progressive scan CMOS sensor
- Up to 1280x1024 resolution
- Up to 30 frames per second at 640x480
- Simultaneous H.264/MPEG-4/Motion JPEG/3GPP streaming
- Alarm triggered and scheduled sending of images and video via e-mail and to FTP
- Wi-Fi 802.11b/g/n (supports WPS) for N13103
- Recording to memory card
- Built-in microphone and line out
- Built-in multi-zone motion detection and audio detection
- ONVIF v1.02 support
- Easy and user friendly interface
- 16 channel surveillance software

# Compact camera with megapixel CMOS sensor and built-in microphone

N13102/N13103

#### General properties

Model	N13102/N13103
Image sensor	1/4" progressive scan CMOS sensor
Sensitivity	0.5 lux @ F1.9
Shutter time	1/4 ~ 1/17780 sec
S/N ratio	44 dB

#### Lens

Type	M12 with 4.5 mm focal distance, F1.9
Angle of view	47° horizontal

#### Video

Resolution	1280x1024, 1280x720, 640x480, 320x240, 160x120
Video streaming	H.264 BP, MPEG-4 Part2 (ISO/IEC 14496-2) SP, 3GPP (simultaneous streaming)
Frame rate	H.264/MPEG-4/Motion JPEG: up to 30 fps at 640x480, 320x240 up to 15 fps at 1280x1024, 1280x720 / 3GPP: up to 10 fps at 320x240, 160x120
Bit rate	Auto, fixed rate (5 presets). Fixed rate: H.264/MPEG-4: 64 kbps to 6 Mbps Motion JPEG: presets only / 3GPP: 16 to 256 kbps
Image settings	Brightness, contrast, saturation, sharpness, exposure. Rotation: mirroring, flip, mirror + flip
Zoom	10x digital zoom

#### Audio

General	Two-way audio, external audio output, microphone
Compression	G.711 $\mu$ -law, a-law and AMR

#### Network

Network connection	10BASE-T/100BASE-TX Auto-MDIX
Supported protocols	Bonjour, TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP, RTSP, RTP, RTCP, HTTP, TCP, UDP, 3GPP/ISMA RTSP, ONVIF
Security	Multilevel user access with password protection, HTTPS encryption

#### Wireless communication (for N13103)

Standard	802.11b/g/n (supports WPS)
Security	WEP 64/128 bit, WPA-PSK/WPA2-PSK encryption

#### Recording and triggers

Triggers	Multi-zone motion and audio detection with threshold and sensitivity control, network error
E-mail alert	Alarm triggered, scheduled, continuous (30 min to 24 h interval) sending of images or video
Recording to NAS	Continuous, scheduled, alarm triggered recording of video to a shared folder (Windows/Linux) or to a network attached storage
Uploading to FTP	Alarm triggered, scheduled, continuous (1 min to 24 h interval) uploading of images or video

#### Memory card

Type	SD/SDHC
Recording	Event triggered, scheduled, continuous

#### Installation/Setting

Operation	Professional 16 channel software for recording and monitoring (included) Software for searching and setting of IP cameras (included) Firefox, Safari, Internet Explorer 8.0 or later ONVIF v1.02 support
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#### UPnP

Users	Windows UPnP auto-discovery (XP SP3/Vista/Windows 7) 5 simultaneous connections
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#### Operation

Connectors	RJ-45 for Ethernet 10/100 Base-T Power connector, 3.5 mm jack for line out, memory card slot, reset button, WPS (for N13103)
Power	12 V DC, 1 A (direct current), 12 W max
Dimensions	99 x 63 x 30 mm
Weight	96 g (net weight)
Operating temperature	0 to +40°C
Casing	Plastic

#### Minimum requirements

	Network interface card, Internet Explorer 8.0 or later Operation system Microsoft © Windows 2000, XP, Vista, Windows 7, Mac OS X Leopard 10.5 Pentium 4 2.8 Ghz or equivalent AMD, 1 GB RAM / 256 MB RAM video card
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#### Package contents

	Bracket Patch cord (1 m length) Camera (lens pre-installed) CD with software and user's manuals 12 V DC, 1 A power supply (direct current) Quick installation guide
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Attention! When buying the product please check if its set is complete and inspect it for mechanical damages. Product specifications can be changed without preliminary notice.

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