NetDVR Series
Digital Network Video Recorders

- **4-Channel multiplexed recording**
- **Server for 4 live images**
- **Wavelet compression**
- **Up to 720x486 pixel resolution**
- **TCP/IP protocol 10BaseT Ethernet port**
- **Removable HDD**
- **Comprehensive GUI for real-time and playback viewing**
- **Video motion detection and alarm contacts**

The NetDVR series network digital video recorder has 4 inputs for standard analog color cameras and 4 alarm inputs and outputs. The units incorporate wavelet video compression, video motion detection and a network server. The NetDVR provides transmission of 4 images live sequentially, while the DVR will provide multiplexed recording. Playback of the recorded images can be done in quad mode or for individual camera channels. Recording, play-back and live video can be done at the same time.

The NetDVR is designed to provide image recording and play-back of the recorded images from remote locations. Viewing of the live and recorded images as well as configuration settings are done via the TCP/IP network connection. The live images give additional real-time information and alarm status feedback.

The network interface is compliant with 10BaseT Ethernet and supports the TCP/IP set of communication protocols allowing communication on private networks, Intranets and the Internet.

The viewer software supplied with the NetDVR enables viewing of live and recorded images, and provides the control settings for time-lapse recording, alarm recording, setting up a daily schedule and hard disk management functions. Alarm recording can be triggered by the built-in video motion detector or contact closure inputs. Furthermore, the NetDVR has time/date search and alarm play-back functions.

The units have serial outputs for control of Pan and Tilt units, Zoom lenses and AutoDomes(tm). Control of these functions is done with the mouse in the viewer image.

For protection against unauthorized access the security options include password protection and IP address filtering.

Remote viewing and control is handled via the NetDVR viewer software that requires a dedicated remote PC.

The viewer's user control functions enable playback selection of individual images or a quad screen. The viewer screen also provides the standard DVR control buttons, e.g. Start, Stop and Reverse. Images can be displayed on the monitor screen individually or in quad mode.

In order to enhance the picture update rate, a quality box can be defined for the area of interest. This part of the picture is transmitted at the selected picture quality, while the remainder of the picture is transmitted at reduced quality.

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SPECIFICATIONS

ELECTRICAL

Model No.	Nominal Voltage/power	Color system	Disk size
NetDVR-SP	12VDC, 2.2 A	NTSC and PAL	80 GB, 7200 rpm

Video input level: 1.0Vpp, 75 Ohm terminating or high impedance.

Digital Video Recorder:
- Hard disk size: 80 GB (SP), 3.5" HDD, 7200 rpm.
- Max recording rate: 30 ips for single image, 15 ips in multiplex mode.
- Time lapse selection range: 30 ips - 1 image per 60sec
- Alarm recording selection range: 30 ips ~ 1 image per 60sec
- Scheduled recording: 5 time zones in a one day schedule

Operation: one administrator and four users (one playback user and all live viewing users)

NETWORK

Processor: 32 bit RISC CPU

Flash memory: 8 MB

RAM: 16 MB

Operating System: Embedded Linux

Video Channel (Input/Output): 4 video inputs with selection of terminating/non-terminating inputs

Network protocols: TPC/IP, ARP, RARP, ICMP

Network Line: 10Base-T Ethernet LAN

Viewer software: supplied with the NetDVR

Image Resolution: 720X486,720X243,360X243, 180XI21, 90X60

Image Compression:
- Compression algorithm: Wavelet, Progressive mode
- Compression Ratio: 10:1 ~200:1 (typical 30:1)
- Compression Rate: Max 30 ips (NTSC), 25 ips (PAL)

Performance:
- Transfer Rate: Max 15 ips,
- Decoding Rate: 2-15 ips,

Management and Software Update:
- Remote system-configuration
- Flash memory allows new version software updates through local LAN network

Security:
- Password protection
- IP Address Filtering

Alarms Inputs and Outputs:
- Motion detection (Activity detection)
- Software-controlled alarm inputs: 4 opto-coupler, 5 VDC, 12 mA
- Alarm output contact: 4 solid-state (normally open contact) max. 250 VAC or VDC, 170 mA.

Miscellaneous functions:
- High quality image area setting (Q-box)
- Image quality control (10 levels of compression)

Pan/Tilt/Zoom Control: RS-232 or RS-485 (DB-15 connector)

PC minimum requirement:
- Processor Pentium III or better

Operating system: Windows 98/NT4/ME/2000/XP with more than 64 MB free memory, Video card with 16 MB video-RAM or more.

External power supply:
- 12 VDC/2.2 A
- 100 - 240 VAC
- Power supply unit included

MECHANICAL

Connectors:
- 4x BNC, video.
- RJ-45 Ethernet.
- Screw terminal, 7 pin: RS232 and RS485
- Screw terminal, 8 pin: 4 Sensor input connections
- Screw terminal, 8 pin: 4 Relay output connections
- Power 5 mm circular, center positive

Dimensions: (HxWxD*) 60 x 306 x 300 mm (2.36 x 12.05 x 11.81 inch) *including connectors

Weight: 4 kg (8.8 lb)

ENVIRONMENTAL

Temperature range:
- Operating: -5° to 40°C (23° to 104°F)
- Storage: -40° to 70°C (-40° to 158°F)

Operating Humidity: 5% to 93% non-condensing

General Standard: according to EN50130-5 Class 1

Hard disk drive specification:
- Operating shock: 60 G/2.0 msec.
- Non Operating shock: 300 G/2.0msec.

Electro Magnetic Compatibility

Emission:
- EN 55022, Class B;
- FCC part 15, Class B

Immunity: EN 55024 for ITE equipment

Safety: EN60950 and UL1950

Delivered accessories

Viewer software
Network cables
Power supply unit

Note: ips = images per second

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