



FEATURES

WatchNET is a digital video recording surveillance system. WatchNET will simultaneously provide live display, record, playback, archive and host remote transmission at any security site.

WatchNET provides smart search tools and system management capabilities. Specify motion based on object size, speed and direction, and records only those events you want to see. Or use the latest in ATM/POS integration to record all transactions that occur at any register and then systematically display only the video associated with text that contains the transactions of interest.

WatchNET has the capability to record audio on every channel and therefore making it the most reliable solutions from large commercial properties to small home installations.

WatchNET images are recorded, compressed and stored digitally on a secure server for easy access when you need them, from your PC or remotely over the LAN/WAN. The number of users that can access the DVR over the network is based on the bandwidth throttle. Using WatchNET unique multi client software users can access multiple sites or multiple cameras. Remote client access means you can monitor your cameras in real time or review security sequences from anywhere that has Internet access.

WatchNET systems are built on MICROSOFT WINDOWS® - XP EMBEDDED platforms

- Voice Notification by phone
- Audio Recording capability on every channel
- Protocols for multiple PTZ cameras or domes
- Alarm, POS/ATM and Card Access Integration
- Remotely viewing and notification with Remote Client Software (included)
- Remotely view live video with the browser-based viewer (included)
- Export video, audio and text to CD-RW, DVD-RW and USB key
- Custom Configurations available to suit any applications for easy ordering
- Use Smart Search to instantly retrieve motion-based search results
- Free Dynamic IP support
- E-Mapping Software (sold separately)
- Watchdog Function
- Digital Watermark

FEATURES

High Resolution Display

WatchNET digitally records up to 480 ips (NTSC)* or 400 ips (PAL)* across multiple cameras directly to the internal hard drive. Simultaneously watch live display, record, playback, archive and remote transmission.

High Resolution Recording

WatchNET dvr allows for high-resolution recording using the latest in digital technology MPEG 4 hardware compression and H.264. Recording rates of 320 x 240, 704 x 480 and 740 x 480 can easily be assigned by each camera to give greater attention to critical areas. Watchnet displays video in 640 x 480 resolution or 800 x 600 in full screen.

Plug and Play Interface

WatchNET Windows XP Embedded interface is user friendly and easy to use. Simple computer knowledge, will allow the operator to control many functions of the dvr using mouse commands. These powerful screens allow quick setup, operation and reconfiguration.

ATM / POS

WatchNET systems have protocols to interface with any ATM and POS registers. This is then integrated into the dvr and records all matching data and video and stores that information on the hard drive. Using the smart search text feature all corresponding data from that database with video can then be retrieved to hand over for evidence or investigation.

Smart Search

WatchNET uses smart search, thumbnail search and panorama search to filter through hours of video to find only the events you want. Just outline a box in a search and the WatchNET dvr will search through hours of unfiltered data to find only events that occurred in that field that was outlined. Thus reducing the cost and saving time to find incidents.

Screen Format and Display

Select live and playback displays for any camera in any position, cameras can be viewed in 1, 4, 6, 9 and 16 divisions. Choose any live or recorded picture area and zoom in 2X for a closer look. **WatchNET** offers picture enhancement software that can digitally improve color, contrast and sharpness. On play back, certain areas in the picture can be zoomed in or out giving you the capability to focus on one particular area.

Live and Recorded Audio

WatchNET can record video and audio based on the events leading to a condition, video can be recorded by normal, motion, alarm and normal and event. Rapid Search allows for instant retrieval of recorded data on all channels or by selecting color-coded data on a grid by selecting only motion detection or alarm triggers.

Intelligent Recording and Alarm Detection

WatchNET DVR controls and manipulates both internal and external alarm inputs and outputs. Either through input sensors or motion within the video stream the WatchNET system can output alarms for instant notification. Rapid Search features allow for instant retrieval of recorded data on all channels or smart search by selecting only motion detection or alarm triggers. Watch live camera feed with our picture in picture during playback.

Export Video, Audio and Text to CD

Video / Audio data can easily be backed up and outputted to DVD/CD and USB key, that can be played back on any PC, make AVI files or take snapshots of any incidents for archiving. With the recent upgrade to include USB port backup, users can now include removable (external) backup drives. Digital watermarking encrypts backed up files to keep original authenticity.

Remote Access

WatchNET DVR includes a built in web server and allows DNS for remote access. The MPEG 4 and H.264 compressions allow users to operate at a lower bit rate, which dramatically enhances network streaming and storage capacity. Due to this increase in network speed, users can now remotely view live video / audio playback previously recorded video / audio at the same time. Also with our versatile custom display, users have the option to view and playback cameras from the dvr simultaneously.

Reliability of Data

The **WatchNET** recording format gives each image a unique identification Watermark, preventing the alterations of saved images.

Plug and play operation

WatchNET is the future for dvr systems by providing professional quality surveillance solutions at low cost expenses and helping companies and institutions reduce investigation time. Our user-friendly windows based menu makes it easy to configure. WatchNET is available in many languages and in a desktop or rack mount chassis.

STORAGE DURATION

Storage duration, or the quantity of images that can be recorded on the hard drives, is affected by several factors. Digital video with high levels of activity or detail consumes more disk space than video with little activity or detail.

Other factors include:

- Size of the storage database
- Image rate, image quality and sensitivity settings
- Low light levels or noise in the video signal

SPECIFICATIONS

Operational

WatchNET Video Recording System

Internal Media FormatIDE hard drives provide storage capacities of 80 GB to 2.0 TB for recording, depending on the hardware and custom configurations

Removable Media Format.....	DVD-RW or CD-RW
Archiving Format.....	Network, DVD-RW or CD-RW
Record Mode.....	Continuous
Video Standard.....	NTSC / PAL
Image Rate Settings (images per second)	
NTSC.....	480 fps
PAL.....	400 fps
Resolution Recording:	
High (740 x 480)	
Medium (704 x 480)	
Low (320 x 240)	
Display:	
640 x 480 live display, 800 x 600 full screen	
Quality/Capacity Settings	
Extended Record.....	Maximum compression
Normal.....	Medium compression
Super.....	Minimum compression
Alarm Recording	
Settings.....	Image rate, quality and sensitivity can be independently set for alarm conditions on each camera
Adjustable Duration.....	Pre and post alarm programmable from 5 seconds to 5 minutes
Schedule.....	Programmable recording times for each day of the week, in 60-minute increments
Desktop Front Panel Controls and Indicators	
Media Cover.....	CD-RW or DVD-RW and Removable HDD
Setup/Operation Menus.....	Accessed locally or through remote with multi client software or web browser.

SPECIFICATIONS

Inputs/Outputs

Video Inputs.....	16 BNC
Alarm Inputs and Outputs.....	8 or 16, one per camera
Analog Output.....	Two composite, 1 Vp-p, 75 ½
Digital SVGA Monitor.....	800 x 600 pixel resolution, horizontal
Network Host Interface.....	TCP/IP Ethernet (Users determined by bandwidth throttle)

Rear Panel Connectors

Camera Inputs.....	8 or 16, composite, BNC
Audio.....	16 inputs, RCA type line in, line out
Alarm Inputs and Outputs.....	Four grounded 12-pin connectors with screw terminals
Power.....	One, IEC-320-C13
Keyboard.....	PS/2-style
Mouse.....	PS/2-style
Monitor.....	One, SVGA, DB15-S
Video Output.....	Two composite BNC
PTZ.....	One PTZ control
Printer.....	One, DB25-S, parallel
USB.....	Two USB

Module

Com2.....	One, RS-232, DB9-P
Modem.....	RJ-11, 56 kb (optional)
Network	RJ-45, Cat 5 or Cat 5E twisted-pair Ethernet

Electrical

Power.....	100/240 VAC, 50/60 Hz, 2.0/1.0 A
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CAUTION: Set the voltage select switch to the appropriate line voltage before connecting power.

Mechanical

Rack Mount Chassis	
Dimensions (H x W x D).....	177.80 x 431.80 x 533.40 mm (7 x 17.0 x 21.4in)
Unit Weight.....	14.50 kg (31.90 lbs)
Dimensions (H x W x D).....	304.80 x 577.85 x 635 mm (12 x 22.75 x 25 in)
Shipping Weight.....	20.41 kg (45.2 lbs)

Environmental

Operating Temperature.....	5° to 40° C (41° to 104° F)
Humidity.....	5% to 95% RH (non condensing)
Storage Conditions.....	-10° to 60° C (14° to 140° F)

Regulatory

Emissions.....	FCC 15b, Class A
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