



## Advanced Digital Surveillance Solution With True Real-Time Monitoring And Improved Image Quality

**NetServer Pro** is a high quality digital video surveillance system which has more features and functionalities for improved surveillance requirements. It provides noticeably faster frame rates at 2.5 fps for all 8 cameras on display and up to 15 f/s\* when recording. It has been developed as a result of overwhelming demand for faster frame rate in monitoring and quality of display. NetServer Pro is available in two models for 4, 8 channels.

**NetServer Pro** is an enterprise class digital surveillance server which is ideally suited for corporate customers looking to enhance and/or upgrade its current security systems with newer, faster and more flexible digital surveillance. With the improved frame rate, it can provide true real-time monitoring, recording and clearer picture quality.

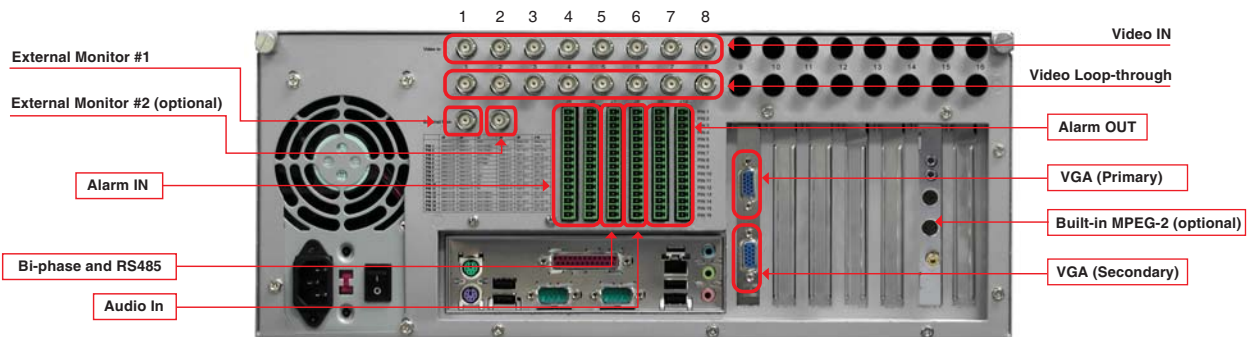
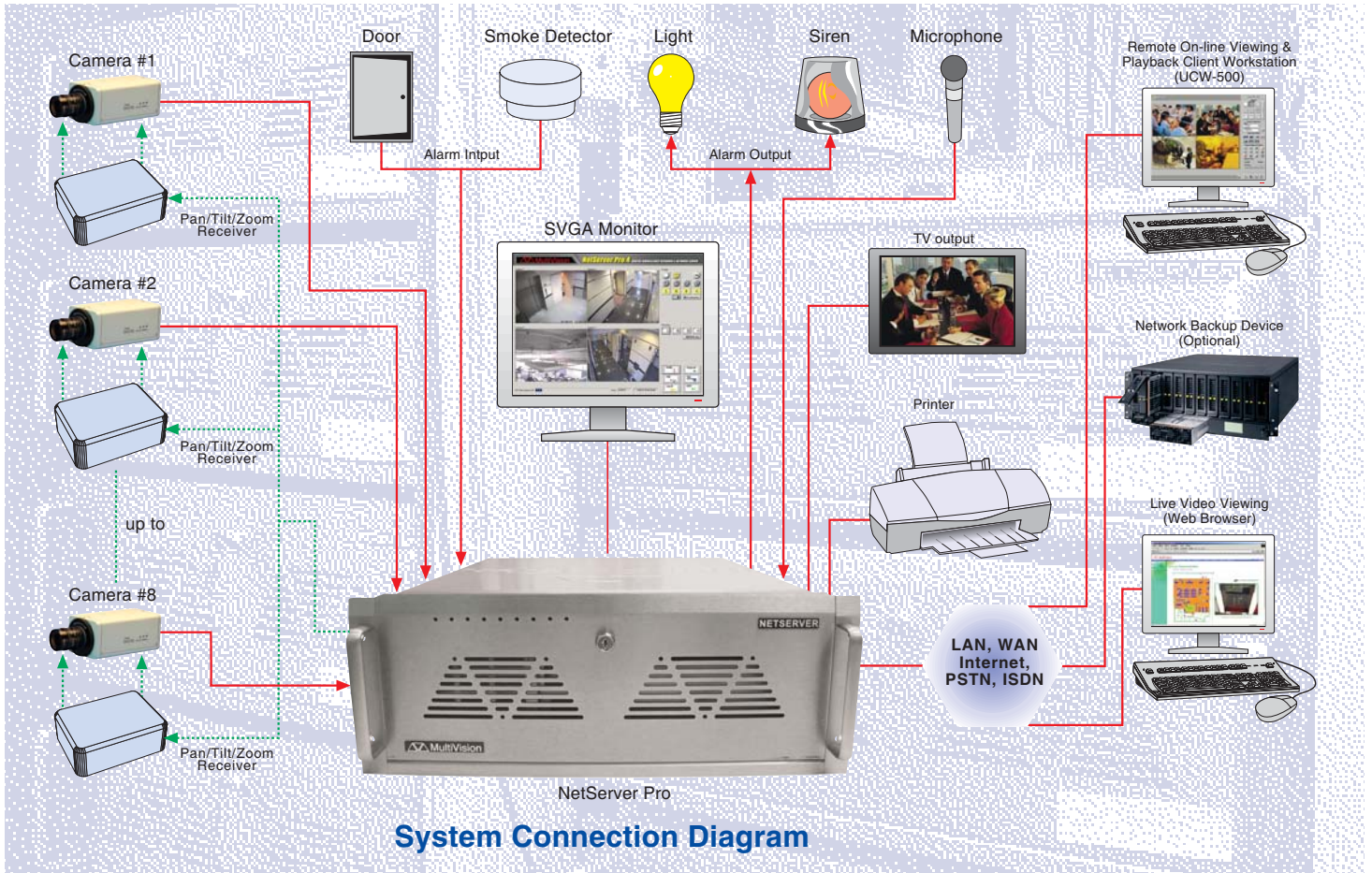


\* NOTE: without scaling display



### NetServer Pro key features:

- \* Real-time multi-channel digital video recorder, multiplexer and transmission server
- \* Full time resolution video real-time display (PAL 768x576; NTSC 640x480)
- \* Simultaneous playback, recording and live display
- \* Hardware Video Loss Detection
- \* Analogue monitor output with sequential and manual switching
- \* Video loop-through
- \* Motion Detection
- \* Alarm, Pre-alarm and schedule recording
- \* Software and Hardware watchdogs
- \* Multilingual capability
- \* Multiple audio recording channels
- \* Average 2.5K per frame (384 x 288 high resolution)
- \* Adjustable recording file size for storage
- \* MPEG-4 / Wavelet compression codec
- \* Remote application software for multi-sites camera online viewing, playback and recording via LAN, Internet, ISDN, PSTN
- \* Alarm alert to remote PC with UCW
- \* Send alarm alert E-mail (with alarm image attachment)
- \* Remote viewing password and user control
- \* Video authentication watermark of recorded images
- \* Support simultaneous local and remote Pan/Tilt/Zoom control
- \* Built-in RS-485 / Bi-phase for PTZ control
- \* Additional Monitor output with programmable graphical overlay for alarm display (optional)
- \* Additional MPEG-2 card for two-channels full resolution (704x576) recording in the event of alarm (optional)



NOTE: Optional items are available for NetServer Pro 4A/8A

Standard Configuration	NetServer Pro 4	NetServer Pro 8
Video Input	4 channels	8 channels
Audio recording	4 audio recording channel	8 audio recording channel
Alarm Feature	8 Alarm inputs 4 Alarm outputs	16 Alarm inputs 8 Alarm outputs
Digital video recording (Total)	100fps	100fps
Remote Transmission speed (Via LAN)	100fps	100fps
Display modes	Full Quad	Full Quad 5 – split 8 – split
CPU	PIV or above	PIV or above
Hardware configuration	40 GB HDD 3.5" FDD 128 RAM Built-in 10/100M LAN card CD-R/RW	80 GB HDD 3.5" FDD 256 RAM Built-in 10/100M LAN card CD-R/RW
Operating System	Windows 2000	Windows 2000

## General Technical Specifications

### Video Features

Video Input	* Display on SVGA monitor or PAL / NTSC video monitor.
Video display	* Minimum refresh rate at 8-split screen display mode is about 15f/s (PAL) or 18f/s (NTSC). * Video sequential switching on single or quad display.
Video display resolution	* Video display resolution - 768x576(PAL), 640x480 (NTSC)
Video quality adjustment	* Adjustable colour saturation, brightness, contrast and hue (for NTSC)
Video output	* Analogue monitor output with sequential or manual switching to external monitor or TV
Time & Date Stamp	* Time and date overlay on each camera for display and recording.

### Recording Features

Digital video recording	* Adjustable frame rate and resolution for recording / transmission. * Adjustable recorded file length (from 3 min to 15 min) * Selectable hard drive(s) and network mapped drive(s) for recording storage * Provide circular recording mode to allow recycling use of the recording drives
Recording resolution	* 4 CIF resolution (768x576 PAL, 640x480 NTSC). * CIF resolution (384x288PAL, 320x240 NTSC). * QCIF resolution (192x144PAL, 160x120 NTSC).
Compression for digital video recording	* Uses Wavelet or MPEG-4 compression technology.
Schedule recording	* A programmable timer allows user to programme different recording schedule patterns at different times for each camera.
Recording capacity	* Recording capacity is variable according to the video compression ratio, frame rate, image resolution and number of camera being recorded. * The unit will provide an average of 24 hours of high resolution recording on 8 cameras at max. frame rate based on 26GB hard disk. * The recording capacity can be upgraded to meet additional requirement.
Average frame size	* Average 2.5K per frame (384 x 288 high resolution)
Recording speed	* User define time lapse interval for individual camera: PAL: 25,12.5,8,4,1,1/2,1/3,1/5,1/10,1/15,1/30,1/60 frame(s) per second for individual camera setting. NTSC: 30,15,7.5,4,1,1/2,1/3,1/10,1/15,1/30,1/60 frame(s) per second for individual camera setting.
Pre-and post-alarm recording	* Pre-and post-alarm recording of the alarm images with adjustable duration
Motion Detection recording	* Video motion detection on each video input

### Playback Features

Playback	* Quad playback at different speed, shuttle forward and backward; single playback with simultaneous video and audio
Intelligent search functions	* Video recorded can be played back by camera event or in time and date from video search
Simultaneous recording and playback	* The recording function and the playback function of the unit can be executed simultaneously.
Image capture, zoom, save and printout	* The captured image or selected part of the zoomed image can be directly printed with any Windows compatible printer or saved to floppy disk.

### Alarm Features

Alarm inputs	* With status change auto detect (from 8 up to 32 programmable alarm inputs).
Alarm outputs	* Relay closer output (from 4 up to 16 programmable alarm outputs).
Alarm log	* History log of alarm event.
Alarm alert	* Once the NetServer receives an alarm triggering, either from alarm inputs or motion detection, it will activate the alarm alert modules to alert a designated remote machine and view live video of the alarmed camera.
Video loss detection	* Automatic hardware detect video loss with audio and message alerts

### Remote Application Software "UCW-500/1000/2000"

Remote viewing and recording	* Up to 36 Multi-sites camera online viewing via LAN, Internet, ISDN and PSTN and allows recording and playback on remote workstation
Remote playback recorded video	* Image recorded locally or remotely from UCW can be retrieved at the remote station via LAN, Internet, ISDN and PSTN.
Pan / Tilt / Zoom	* Remote Pan / Tilt / Zoom functions via LAN, Internet, ISDN and PSTN
Quality & bandwidth control	* Adjustable video compression rate, frame rate & resolution for video transmission.
Remote viewing password and user control	* Online viewing of live video with password logon control and user management.

### Built-in WebServer

WebServer	* Customisable web-page for live video viewing via web browser.
Universal Web browser	* Supports Internet Explorer, Netscape, Linux and Macintosh

### Additional Features

Multilingual GUI	* Provide character graphical user interface for different languages.
PTZ Control Functionality	* Support various Pan/Tilt/Zoom control protocols (e.g. UNIVISION, PELCO, AD, LILin, VICON, PANASONIC, PHILIPS & Elbex, Kalatel and Ultrak-Maxpro)
Watchdog	* Software and hardware watchdog functions
PTZ connection	* Built-in RS-485 and biphase circuitry
Second Monitor Output	* Programmable graphical overlay for alarm display

### Optional items for NetServer Pro 4A/8A/12A/16A

MPEG-4 recording	* One-channel full resolution (704x576) recording at 25fps in the event of alarm.
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### Physical Specifications

* Dimension: 483W x 570D x 180H Weight: 23kg (Net) 26kg (Gross)
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Specifications subject to change without notification



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