





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

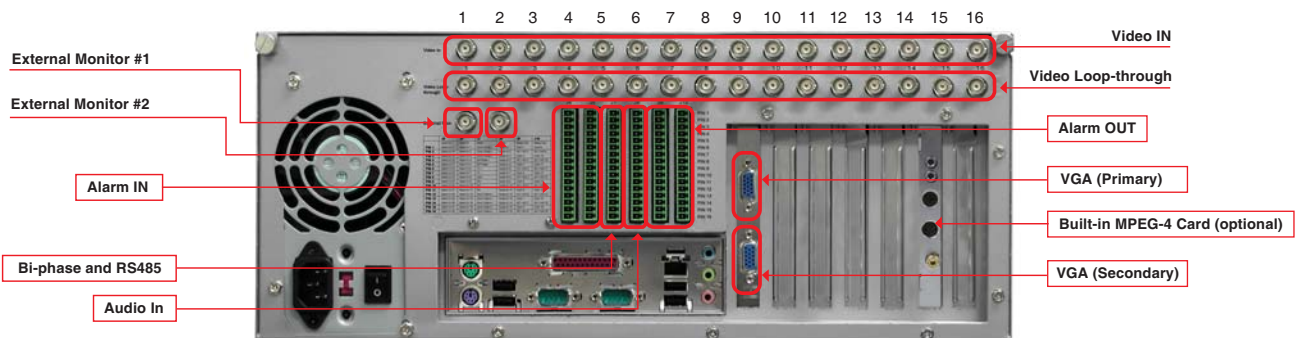
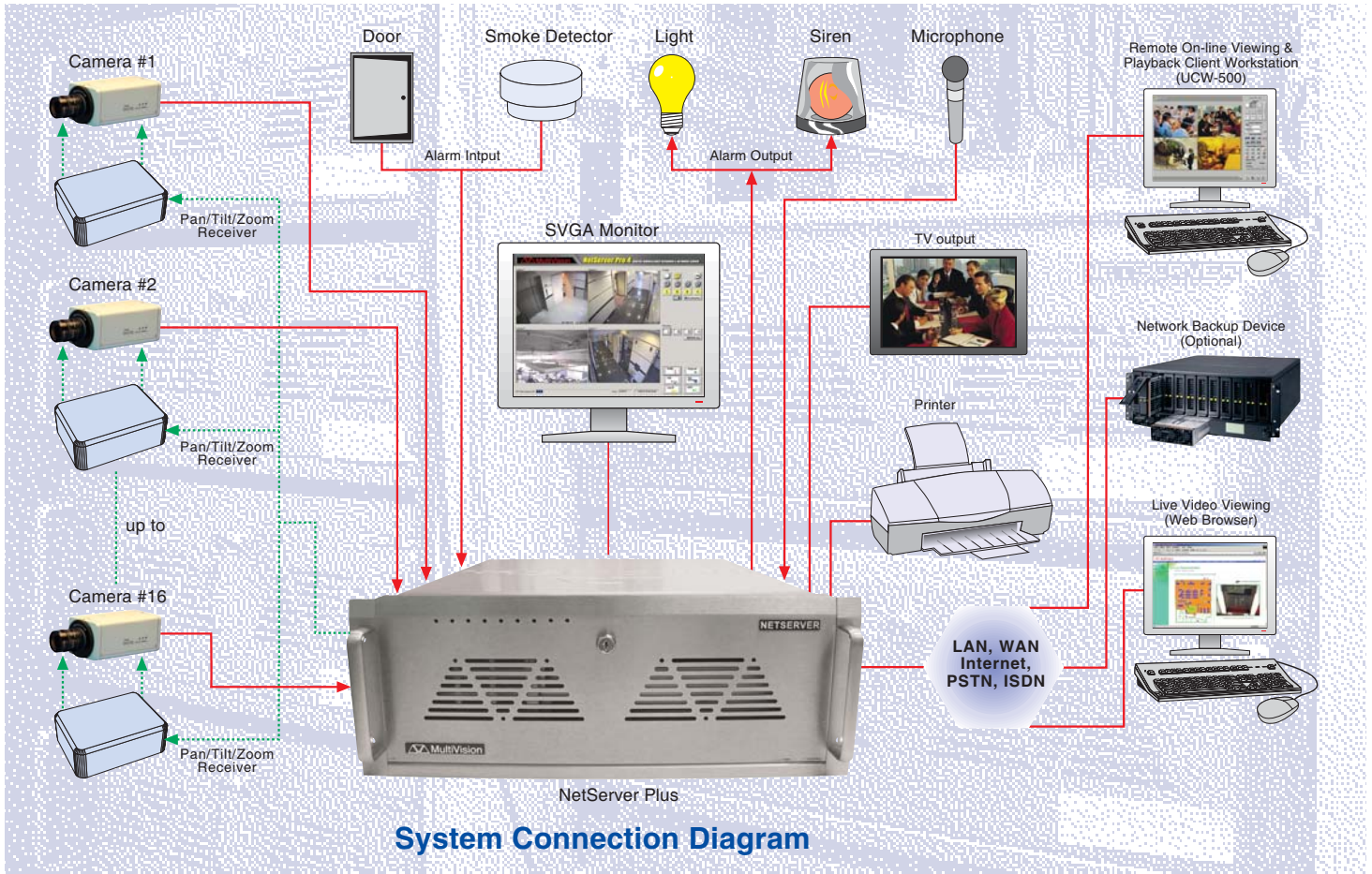
**NetServer Plus** is an advanced model of NetServer that provides more features and hardware facilities to meet the increasing requirements of the digital video surveillance market.

With built-in alarm input/output, audio and RS-485/Biphase circuitry incorporated into the back panel construction as well as the additional MCC-4 video capture card for alarm handling, NetServer Plus is a true all-in-one multi-channel digital video recorder and network server at an affordable price.



### NetServer Plus key features:

- \* Real-time multi-channel digital video recorder, multiplexer and transmission server
- \* Full resolution video real-time display and recording (PAL 768x576; NTSC 640x480)
- \* Simultaneous playback, recording and live display
- \* Hardware Video Loss Detection
- \* Analog 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 one-channel video capture card for alarm handling
- \* Additional Monitor output with programmable graphical overlay for alarm display
- \* Additional hardware MPEG-4 compression card for one-channel full resolution (704x576) recording in the event of alarm (optional)



Standard Configuration	NetServer Plus 4	NetServer Plus 8	NetServer Plus 12	NetServer Plus 16
Video Input	4 channels	8 channels	12 channels	16 channels
Audio recording	1 audio recording channel	2 audio recording channels	3 audio recording channels	4 audio recording channels
Alarm Feature	8 Alarm inputs	16 Alarm inputs	24 Alarm inputs	32 Alarm inputs
	4 Alarm outputs	8 Alarm outputs	12 Alarm outputs	16 Alarm outputs
Digital video recording (Total)	25fps	50fps	75fps	100fps
Remote Transmission speed (Via LAN)	25fps	50fps	75fps	100fps
Display modes	Full	Full	Full	Full
	Quad	Quad	Quad	Quad
		5 – split	6 – split / 9 – split	7 – split / 10 – split
		8 – split	12 – split	13 – split / 16 – split
CPU	PIV or above	PIV or above	PIV or above	PIV or above
Hardware configuration	80 GB HDD	80 GB HDD	80 GB HDD	80 GB HDD
	3.5" FDD	3.5" FDD	3.5" FDD	3.5" FDD
	256MB RAM	256MB RAM	256MB RAM	256MB RAM
	Built-in 10/100M LAN card	Built-in 10/100M LAN card	Built-in 10/100M LAN card	Built-in 10/100M LAN card
	CD-R/RW	CD-R/RW	CD-R/RW	CD-R/RW
Operating System	XP Embedded or	XP Embedded or	XP Embedded or	XP Embedded or
	Win 2000 Professional	Win 2000 Professional	Win 2000 Professional	Win 2000 Professional

## Features of NetServer Plus

### Video Features

Video Input	* Display on SVGA monitor
Video display	* Minimum refresh rate at 16-split screen display mode is about 2.5f/s (PAL) or 3f/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
Character overlay	* Camera title, 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 program 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 16 cameras at max. frame rate based on 8.6GB 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 by 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 & Pocket PC

### 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
External Storage	* Interface NASStorage
Second Monitor Output	* Programmable graphical overlay for alarm display

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

MPEG-4 recording	* One-channel full resolution (704x576)MPEG-4 recording at 25fps in the event of alarm.
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Specifications subject to change without notification



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