MultiVision
Intelligent Surveillance

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NETSERVER|LEGEND
Digital Video Surveillance System

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

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NetServer Legend is the latest digital video surveillance system which has advanced features and functionalities with excellent video quality for improved surveillance requirement. It can achieve DI resolution (704 x 576) for each individual camera simultaneously.

NetServer Legend is 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. It has been developed as a result of overwhelming demand for fast frame rate in monitoring and quality of display.
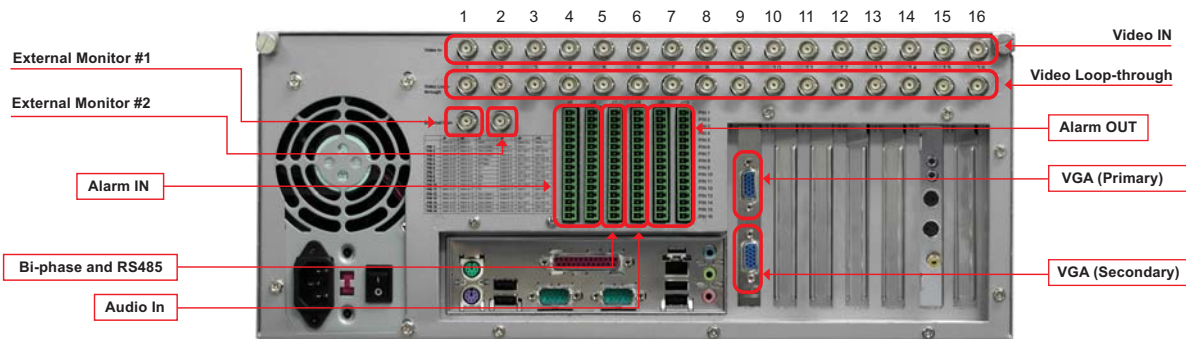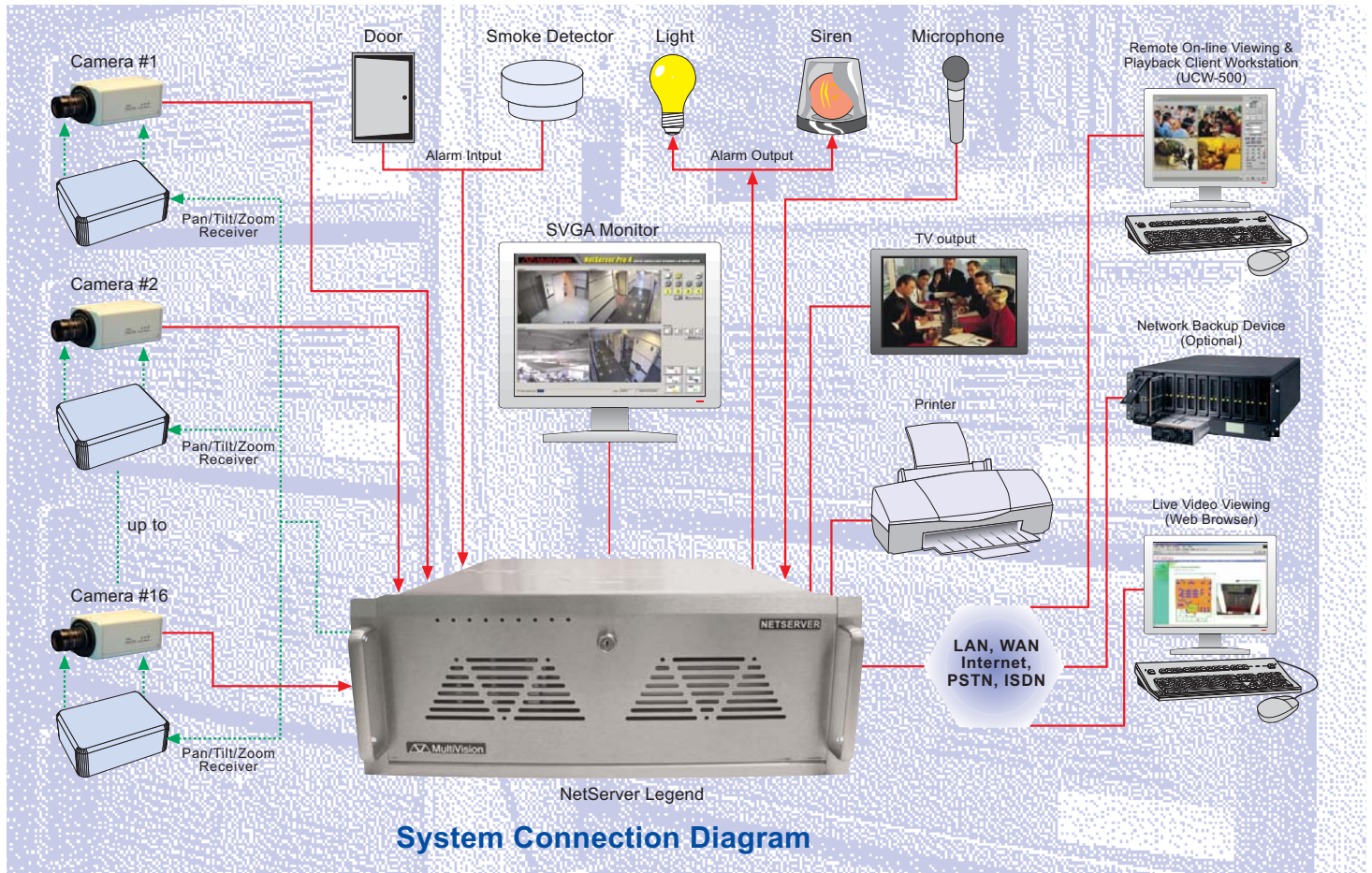
✱ NOTE: without scaling display

NetServer Legend key features:

✱ Real-time multi-channel digital video recorder, multiplexer and transmission server

✱ Full time resolution video real-time display (704x576)

✱ Simultaneous playback, recording and live display

✱ Hardware Video Loss Detection

✱ Hardware MPEG-4 Video & Audio compression

✱ Analogue monitor output with sequential and manual switching

✱ Video loop-through

✱ Motion Detection

✱ 25f/s for each individual camera

✱ Alarm, Pre-alarm and schedule recording

✱ Software and Hardware watchdogs

✱ Multilingual capability

✱ Multiple audio recording channels

✱ Average 2.5KB per frame (352 x 288 CIF resolution) or 12.5KB per frame (704 X 576 Full resolution)

✱ Adjustable recording file size for storage

✱ 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

Camera #1

Pan/Tilt/Zoom Receiver

Camera #2

Pan/Tilt/Zoom Receiver

up to

Camera #16

Pan/Tilt/Zoom Receiver

Door

Smoke Detector

Light

Siren

Microphone

Remote On-line Viewing & Playback Client Workstation (UCW-500)

Alarm Intput

Alarm Output

SVGA Monitor

TV output

Printer

Network Backup Device (Optional)

Live Video Viewing (Web Browser)

LAN, WAN Internet, PSTN, ISDN

NETSERVER

NetServer Legend

System Connection Diagram

External Monitor #1

External Monitor #2

Alarm IN

Bi-phase and RS485

Audio In

Video IN

Video Loop-through

Alarm OUT

VGA (Primary)

VGA (Secondary)

Standard Configuration	NetServer Legend 4	NetServer Legend 8	NetServer Legend 12	NetServer Legend 16
Video Input	4 channels	8 channels	12 channels	16 channels
Audio recording	4 audio recording channels	8 audio recording channels	12 audio recording channels	16 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)	100fps	200fps	300fps	400fps
Remote Transmission speed (Via LAN)	80fps	100fps	100fps	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	Dual PIII processor	Dual PIII processor
Hardware configuration	80 GB HDD	80 GB HDD	120 GB HDD	180 GB HDD
	3.5" FDD	3.5" FDD	3.5" FDD	3.5" FDD
	128 RAM	128 RAM	256 RAM	256 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	Win 2000	Win 2000	Win 2000

✱ NOTE: Internal IDE harddisks can be expanded to a maximum of 1280GB

General Technical Specifications

Video Features

Video Input	Display on SVGA monitor or PAL / NTSC video monitor.
Video display	* Minimum refresh rate at 16-spilt screen display mode is 25f/s (PAL) for each individual camera
	* Video sequential switching on single or quad display.
SVGA display	* Dual SVGA display with built-in dual display card
Video display resolution	Video display resolution - 704x576(PAL)
Video quality adjustment	Adjustable colour saturation, brightness, contrast
Video output	2 Analogue monitor outputs with sequential or manual switching to external monitor / 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	* D1 resolution (704 x 576).
	* CIF (352 x 288).
	* Low resolution (176x144PAL).
Compression for digital video recording	Uses hardware 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 16 cameras at max. frame rate based on 88GB hard disk.
	* The recording capacity can be upgraded to meet additional requirement.
Average frame size	Average 2.5KB per frame (352 x 288 high resolution) or 12.5KB frame (704 x 576)
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, digital zoom, save and printout	The captured image or selected part of the digital 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 alarm inputs).
Alarm outputs	Relay closer output (from 4 up to 16 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	Automatically 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 graphic user interface for different languages (English, Traditional Chinese, Simplified Chinese).
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 circuity