

The surveillance solution for a peace of mind

Experience and expertise enable MultiVision to provide a comprehensive set of security solutions. Solutions using digital surveillance technology with remote monitoring function that can look after all the important things which matter to you. MultiVision security solutions offer quality and scalability to suit your individual needs.



MultiVision Systems and Networks Limited (trading as MultiVision Intelligent Surveillance) established in 1986, has over 15 years of experience in CCTV product development, manufacturing and system integration. MultiVision leads the CCTV and security industries into new standards by introducing a new generation of digital video recording and remote surveillance system – The "NetServer" series.

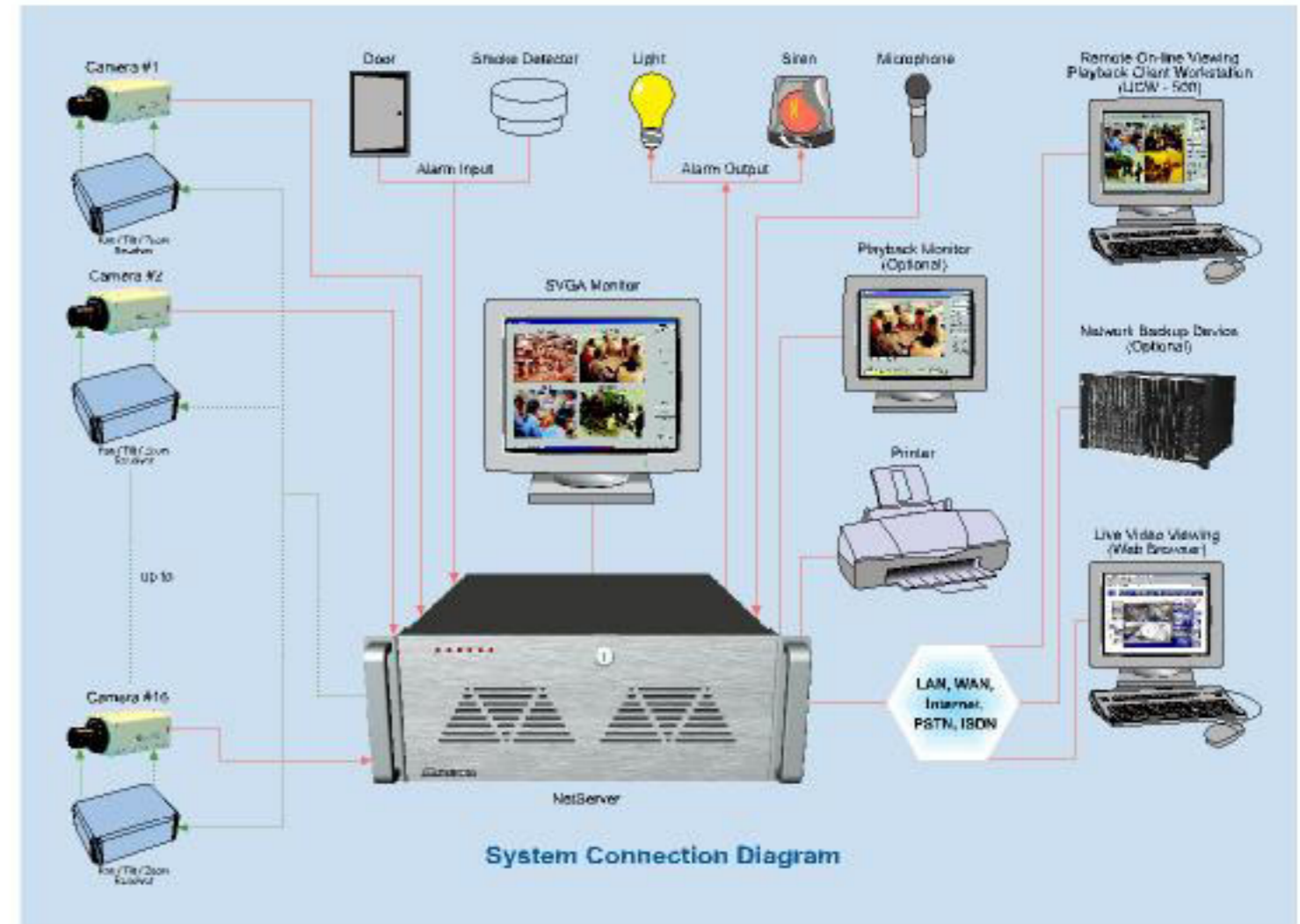
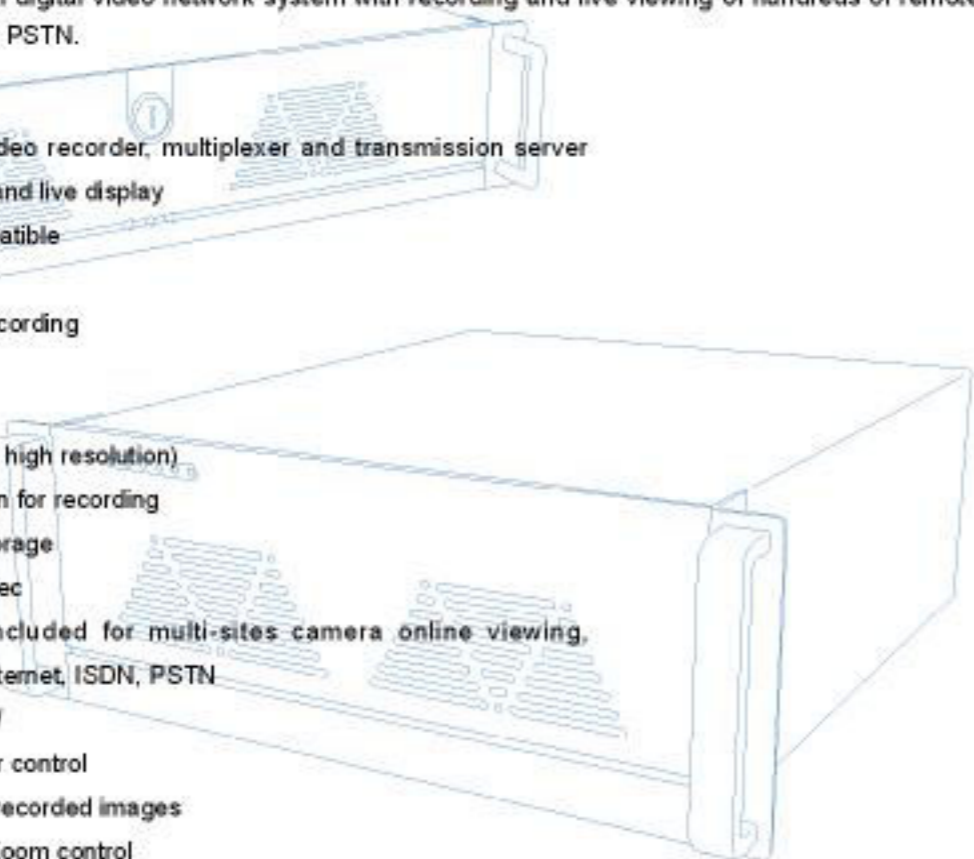
New era of powerful recording and remote surveillance solution

NetServer is a all-in-one multi-channel digital video-recording device with built-in features using the latest Pentium CPU for high resolution real time monitoring and high quality real-time digital video recorded images. NetServer series has four main model – NetServer 1000 (4 channel), NetServer 1500 (8 channel), NetServer 2000 (16 channel) and NetServer 3000 (16 channel).

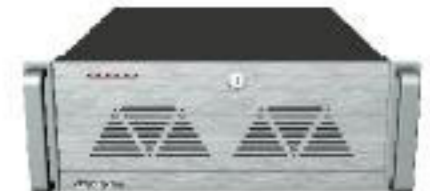
NetServer can also work as a digital video network server for providing digital video streaming to multiple remote viewing locations at any time, from anywhere far more efficiently than ever before. Multiple NetServers and PC-based viewing and control workstations form a total digital video network system with recording and live viewing of hundreds of remote cameras via LAN, Internet, ISDN and PSTN.

NetServer Key Features:

- ◆ Real-time multi-channel digital video recorder, multiplexer and transmission server
- ◆ Simultaneous playback, recording and live display
- ◆ Windows 98/ME/NT/2000/XP compatible
- ◆ Motion Detection
- ◆ Alarm, Pre- Alarm and Schedule recording
- ◆ Multilingual capability
- ◆ One channel audio recording
- ◆ Average 2.5K per frame (384 x 288 high resolution)
- ◆ Adjustable frame rate and resolution for recording
- ◆ Adjustable recording file size for storage
- ◆ MPEG-4/Wavelet compression codec
- ◆ Remote application software included for multi-sites camera online viewing, playback and recording via LAN, Internet, ISDN, PSTN
- ◆ Alarm alert to remote PC with UCW
- ◆ Remote viewing password and user control
- ◆ Video authentication watermark of recorded images
- ◆ Support local and remote Pan/Tilt/Zoom control
- ◆ Support both PAL and NTSC standard
- ◆ Full time resolution video real-time display (PAL 768x576; NTSC 640x480)



System Connection Diagram



Standard Configuration	NetServer 1000	NetServer 1500	NetServer 2000	NetServer 3000
<b>Video Input</b>	4 channel	8 channel	16 channel	16 channel
<b>Audio recording</b>	1 audio recording channel	1 audio recording channel	1 audio recording channel	5 audio recording channels
<b>Alarm Feature</b>	4 Alarm inputs 3 Alarm outputs	8 Alarm inputs 3 Alarm outputs	16 Alarm inputs 3 Alarm outputs	16 Alarm inputs 3 Alarm outputs
<b>Digital video recording (Total)</b>	25fps	50fps	100fps	100fps
<b>Remote Transmission speed</b>	25fps	50fps	100fps	100fps
<b>Display modes</b>	Full Quad	Full Quad 5 – split 8 – split	Full Quad 7 – split / 10 – split 13 – split / 16 – split	Full Quad 7 – split / 10 – split 13 – split / 16 – split
<b>CPU</b>	PiII 800 or above	PiII 800 or above	PiV or above	PiV or above
<b>Hardware configuration</b>	40 GB HDD 3.5" FDD 128 RAM built-in 10/100M LAN card CD-ROM	40 GB HDD 3.5" FDD 128 RAM built-in 10/100M LAN card CD-ROM	80 GB HDD 3.5" FDD 128 RAMBUS built-in 10/100M LAN card 20X10X40 CD-R/RW	80 GB HDD 3.5" FDD 128 RAMBUS built-in 10/100M LAN card 20X10X40 CD-R/RW
<b>Operating System</b>	Windows 2000	Windows 2000	Windows 2000	Windows 2000

### General Technical Specifications

#### Video Features

Video Input	<ul style="list-style-type: none"> <li>Supports PAL/NTSC composite video</li> </ul>
Video display	<ul style="list-style-type: none"> <li>Display on SVGA monitor or NTSC/PAL video monitor</li> <li>Display real-time video at optimum condition of up to four channels</li> <li>Minimum refresh rate at 16-split screen display mode is about 2.2 f/s (PAL) or 2.5 f/s (NTSC)</li> <li>Video sequential switching on single or quad display</li> </ul>
Video display resolution	Video display resolution – 768x576 (PAL), 640x480 (NTSC)
Dual display	Equipped with dual display card for dual operation (e.g. one monitor is for video display, recording and normal operation while the other monitor is used for playback purpose)
Time & Date Stamp	Time and date overlay on each camera for display and recording

#### Recording Features

Digital video recording	<ul style="list-style-type: none"> <li>Adjustable frame rate and resolution for recording/transmission</li> <li>Adjustable recorded file length (from 3 min to 15 min)</li> <li>Selectable hard drive(s) and network mapped drive(s) for recording storage</li> <li>Provide circular recording mode to allow recycling use of the recording drives</li> </ul>
Recording resolution	<ul style="list-style-type: none"> <li>Super resolution (640x480 PAL, 640x480 NTSC)</li> <li>High resolution (384x288 PAL, 320x240 NTSC)</li> <li>Low resolution (192x144 PAL, 160x120 NTSC)</li> </ul>
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	<ul style="list-style-type: none"> <li>Recording capacity is variable according to the video compression ratio, frame rate, image resolution and number of camera being recorded</li> <li>The unit will provide an average of 24 hours of high resolution recording on 16 cameras at max. frame rate based on 1.6GB hard disk</li> <li>The recording capacity can be upgraded to meet additional requirement</li> </ul>
Average frame size	Average 2.5K per frame (384 x 288 high resolution)
Recording speed	User define time lapse interval for individual camera
Pre-and post-alarm recording	<ul style="list-style-type: none"> <li>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</li> <li>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</li> <li>Pre-and post-alarm recording of the alarm images</li> <li>Duration is adjustable for pre-and post alarm recording</li> </ul>
Motion Detection recording	Video motion detection on each video input

#### Playback Features

Playback	Playback at different speed, shuttle forward and backward
Intelligent search functions	Video recorded can be played back by camera event or in time and date for 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
Alarm outputs	3 Open Collector output (30V 40mA)
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

#### Remote Application Software "UCW-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-500" 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 login control and user management
Remote alarm alert notification	Receive alarm alert remotely from NetServer

#### Built-in WebServer

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

#### General Feature

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. MULTIVISION, PELCO, AD, LLI, VICON, PANASONIC, PHILIPS, CANON, KALATEL & ULTRAK)
Interface with video Matrix switcher	Capable of interfacing with MULTIVISION, VICON, PHILIPS and PELCO matrix switchers for switching and control

# NETSERVER SERIES

digital recorder and network server



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