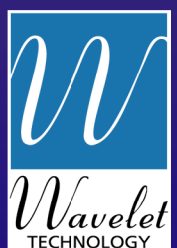


WAVESTORE

DIGITAL VIDEO RECORDING & MANAGEMENT SYSTEM



- REAL TIME RECORD, PLAY, VIEW, ARCHIVE & TRANSMIT
- PLAYBACK WHILE RECORDING
- 50 IPS @ FULL PAL RESOLUTION
- HIGHLY SCALABLE FAULT-TOLERANT STORAGE
- VIDEO TRANSMISSION
- NETWORKABLE
- FULL REMOTE OPERATION
- DYNAMIC MOTION DETECTION
- PTZ ENABLED.....
- INTEGRATION WITH EXISTING SYSTEMS



WAVESTORE DVR



The WAVELET TECHNOLOGY family of WAVESTORE digital video recorders uses the wavelet algorithm which is noted for high compression ratios and excellent retention of video quality, regardless of the compression level. State-of-the-art hardware implementation, coupled with the reliable and tightly written WAVESTORE software, offers superior performance and almost infinite flexibility - WAVESTORE DVR is the most comprehensive DVR solution available today.



Using existing PC technology as the hardware/software platform enables WAVESTORE DVRs to cost-effectively offer the power and flexibility associated with PCs today. It also means that every technological advance in PCs improves the cost or performance of the WAVESTORE digital video. High quality images, at rates up to full motion, make WAVESTORE ideal for security installations where high image rates over multiple cameras are required. WAVESTORE can capture, process and store up to 50 IPS (720 x 576 pixels in PAL) across 16 camera inputs. Captured images can then be stored to three different sectors (PRIME, TIME-LAPSE and ALARM) simultaneously.

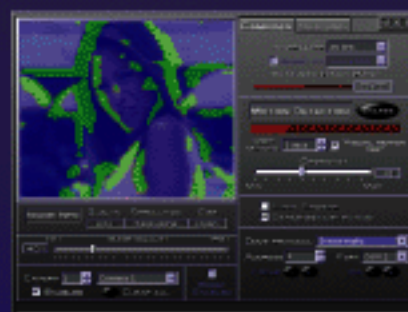
WAVESTORE is a complete, digital solution designed specifically to replace and outperform traditional analogue video solutions. It brings together functionality of Digital Video Recorder/Multiplexer and Digital Video Storage/Transmission System to the Windows NT platform offering superior performance, features and flexibility.

WAVESTORE DVR is a Client/Server based system and has been designed to be incorporated into existing Local Area Networks (LANs) or Wide Area Networks (WANs). When networked, any number of WAVESTORE units (Servers) can be linked together.

Full remote control/viewing can be achieved from one or more PCs (Clients) via the network. WAVESTORE Remote Control software permits full control of any WAVESTORE server and viewing of live/recorded video via any network. Multiple users can connect to, and access, multiple WAVESTORE DVRs simultaneously, using existing desktop PCs. This enables the control of hundreds of cameras and With its playback while recording feature, recent or old video clips can be reviewed without interruption of recording on any of the channels. Sophisticated motion detection using 'dynamic leading edge' software, with variable sensitivity to minimise false triggers, can be configured for each channel. Image recording rates are variable by camera and can be set independently. Both fixed and PTZ cameras are fully supported, with intuitive and simple, fully-integrated mouse PTZ camera control.

Video images are stored on-line on common IDE/SCSI disk drives and can be randomly accessed and otherwise managed at any time. Disk configurations for online storage vary with requirements and are scalable from a few internally mounted IDE HDDs (Gigabytes) to sophisticated IDE/SCSI fault-tolerant RAID storage systems (Terabytes). Extended archiving (off-line) and/or backup can be achieved with large-capacity tape backup systems.

- PENTAPLEX OPERATION
REAL TIME RECORD, PLAY,
VIEW, ARCHIVE & TRANSMIT
- RECORDING NEVER STOPS
- 50 IPS @ FULL PAL RES
(720x576) ACROSS 16 CAMS
- RAIDSTORE IDE RAID
FAULT-TOLERANT
SCALABLE STORAGE
- FULL REMOTE CONTROL
& VIDEO TRANSMISSION
- NETWORKABLE
- DYNAMIC
MOTION DETECTION
- MOUSE PTZ CONTROL
- EXISTING LAN/WAN
INTEGRATION
- ALARMS IN & OUT...



WAVESTORE SPECIFICATIONS

Enclosure	19" Rack Case
Video Input	16 BNC composite inputs via Internal TBC multiplexer
Video Outputs	1 VGA, 4 analogue video spot monitors
Video Standards	PAL/NTSC
Image Resolution (PAL)	720 x 576 (Full), 360 x 288 (CIF), 180 x 144 (QCIF)
Compression Algorithm	Wavelet
Total Recording Speed	50 Images Per Second (PAL) 60 Images Per Second (NTSC)
Recording Sectors	3 simultaneous parallel sectors PRIME, TIME-LAPSE and ALARM
Operating System	Microsoft Windows NT 4.0
Storage	20 GB IDE standard IDE/SCSI RAID scalable to 1TB+ Any NT supported tape drive
Interfaces	Ethernet via any TCP/IP peripheral (PSTN, ISDN, xDSL, Microwave Link...)
Communication Protocol	Standard TCP/IP (network), RS232 (PTZ control)
Image Export	Wavelet, BMP, GIF, TIFF, TARGA, JPEG, Print (via any NT supported printer)
Video Clip Export	Wavelet
Export Media Supported	Any Windows NT supported removable media or network connected drive CD, DVD, LS-120, Jazz Drive, Zip Drive, 3.5" Floppy Drive...
Alarm Inputs	16
Auxiliary Outputs	8
Supported PTZ Protocols	Sensomatic, Panasonic, Phillips, Pelco, Vicon, Kalatel...
Motion Detection	Dynamic leading edge (programmable for each camera independently) Area of Interest (both record and search/playback)

WAVESTORE STORAGE REQUIREMENTS

Per Camera per Hour of non-stop recording

Compression	10:1	20:1	30:1	40:1	50:1	60:1	70:1
Image Res	Full 720x576	Full 720x576	Full 720x576	Full 720x576	Full 720x576	Full 720x576	Full 720x576
Avg Img Size	45.00 KB	35.00 KB	27.00 KB	22.00 KB	17.00 KB	12.00 KB	8.00 KB
IPS							
1	0.15 GB	0.12 GB	0.09 GB	0.08 GB	0.06 GB	0.04 GB	0.03 GB
2	0.31 GB	0.24 GB	0.19 GB	0.15 GB	0.12 GB	0.08 GB	0.05 GB
3	0.46 GB	0.36 GB	0.28 GB	0.23 GB	0.18 GB	0.12 GB	0.08 GB
4	0.62 GB	0.48 GB	0.37 GB	0.30 GB	0.23 GB	0.16 GB	0.11 GB
5	0.77 GB	0.60 GB	0.46 GB	0.38 GB	0.29 GB	0.21 GB	0.14 GB
6	0.93 GB	0.72 GB	0.56 GB	0.45 GB	0.35 GB	0.25 GB	0.16 GB
8	1.24 GB	0.96 GB	0.74 GB	0.60 GB	0.47 GB	0.33 GB	0.22 GB
12	1.85 GB	1.44 GB	1.11 GB	0.91 GB	0.70 GB	0.49 GB	0.33 GB
25	3.86 GB	3.00 GB	2.32 GB	1.89 GB	1.46 GB	1.03 GB	0.69 GB

Notes on Storage Times:

- 1 Storage is per camera - multiply by number of cameras for total storage.
- 2 Based on full PAL resolution (720x576 pixels).
- 3 All image file sizes are approximate. To be used as a guide only. File sizes vary significantly with content & motion.
- 4 Storage times increase significantly if the specialised features of WAVESTORE are used: motion detection & area of interest, image boost, alarms, restricted recording times.



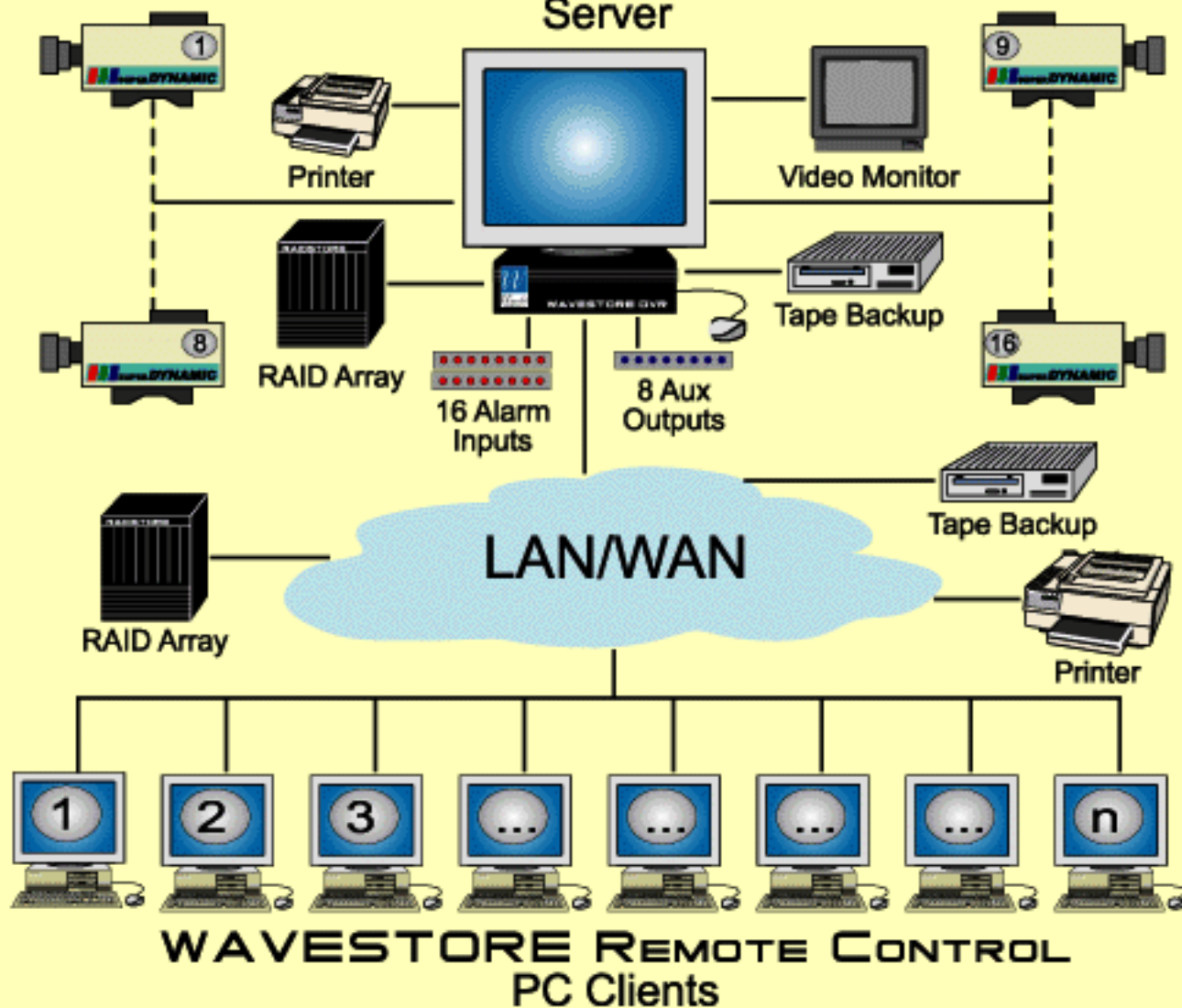
RAIDSTORE
Highly scalable
IDE based
fault tolerant
RAID arrays



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WAVESTORE DVR Server



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