WAVESTORE



Digital Video Recording & Management System

Using MACH-4 technology on LINUX



... and many more superb features

WAVESTORE DVR

WAVESTORE SPECIFICATIONS

Enclosure	19" Rack Mount	
Video Inputs	4, 8, 12, 16 or 20 composite into BNC	
Video Outputs	1 VGA plus 2, 4, 6 or 8 video "spot" via BNC, 1 BNC loop-through output per input	
Video Standards	PAL/NTSC	
Image Resolution	720 x 576 (Full), 360 x 288 (CIF), 180 x 144 (QCIF)	
Audio Inputs	2 - 20	
Audio Resolution	16 bit/16 kHz	
Image Recording Rate	50/60 ips in WAVESTORE 16 (PAL/NTSC), in images per second Up to 250/300 ips in WAVESTORE-20H across all inputs Up to 400/480 ips in WAVESTORE-8H	
Storage Capacity	160 - 1500 GB internal, 16 TB maximum when using external RAID arrays	
Off-machine Archiving Options	Can backup to any PC on the network. Optional CD/DVD writers for recording video and linked audio. Playback via Waveplayer application on any Windows/Linux PC. Image export to Wavelet, BMP, and JPEG.	
Network Options	10/100Mbps network interface as standard. PSTN dialup. ISDN and broadband optional.	
Recording Modes	Records simultaneously to 3 sections: Prime, Time-Lapse and Alarm.	
Alarm Inputs/Outputs	16 inputs/16 outputs. Further 20 inputs and outputs available through Wavelet USB I/O Device.	
Other Interfaces	USB, RS232/485 (PTZ control), parallel (printer) port, mouse/keyboard ports.	
Supported PTZ Protocols	BBV, Dennard, Forward Vision, Panasonic, PelcoD, Phillips, Samsung, Sensormatic, VCL, Vicon - and more.	







WAVESTORE STORAGE REQUIREMENTS

The image recorded would be in Full resolution - 720 x 576 pixels. Image sizes can vary depending on many factors such as the content being filmed, the compression ratio set in Wavestore, and the amount of motion in the scene,. 30k is considered a reasonable average.

ips	40k Image	30k Image	20k Image
1	1350	2025	2700
2	675	1012	1350
5	270	405	540
10	135	202	270
25	54	81	108
50	27	40	54

Storage times in hours for a 200 Gb disk (ips = Images Per Second)

LEADING THE WAY...

RELIABLE WAVESTORE

Offering the ultimate in flexibility, power, and ease of use, the WAVESTORE with its abundant features is the top DVR system. Running on Linux, WAVESTORE **NEVER** stops recording, and can be relied upon to recover in just a minute from power-outs.

REALTIME AUDIO/VIDEO

WAVESTORE now combines real-time record (up to 50 ips PAL/60 NTSC) each input, and synchronised audio. From 4 to 20 inputs, with full resolution wavelet quality, and internal storage of Terabytes, this high performance range of machines copes with all difficult DVR applications.

THOUSANDS OF CAMERAS

All cameras connected to the system may be accessed simply and instantly from any WAVESTORE or remote PC (Windows or LINUX) on the network, to be viewed live or in playback.

HUNDREDS OF USERS

There is no limit to the number of simultaneous users, no matter what size the system.

LANGUAGES

Unlimited users may view or playback at the same time, each one in their selected language. Choose from Français, Deutsch, Español, Portuguès, Türkçe Contact us for other languages.

PASSWORDS

Comprehensive password profiles for each user, including personal bandwidth limit and permitted camera views, gives tight control over the system.

USER FRIENDLY

Acknowledged by many to have the clearest screens and easiest controls, simple to understand and operate, WAVESTORE can be driven by anyone.

FROM 4 TO 20 INPUTS

WAVESTORE may be configured as 4, 8, 12, 16 and 20 input machines, from $\frac{1}{2}$ to 50/60 ips each camera.

SPOT MONITOR OUTPUTS

Every input can be directed to a TV monitor output, with easily programmed sequencing if required.

TELEPHONE/NETWORK

ISDN, PSTN, DSL as well as LAN and WAN.

SUPER-FAST FIND

High-performance recording demands fast access to recorded data, no matter how large the store. Super high-speed find speeds the locating of recorded clips; WAVESTORE can FIND in just seconds.

ALARM IN/OUT

Up to 20 alarm inputs, and 20 outputs, plus connections for additional watch-dog functions.

MASSIVE STORAGE

Terabytes of internal storage and tens of TeraBytes using external RAID; all on IDE drives.

BACK UP MIRROR

Recording may be mirrored out to an external device, camera by camera. Mirror storage time can be the same or much greater than WAVESTORE.

WAVELET COMPRESSION

High quality, image-by-image storage improves chances of successful prosecution.

PENTAPLEX OPERATION

Playback, view, archive and transmit simultaneously; recording **NEVER** stops.

PTZ CONTROLS

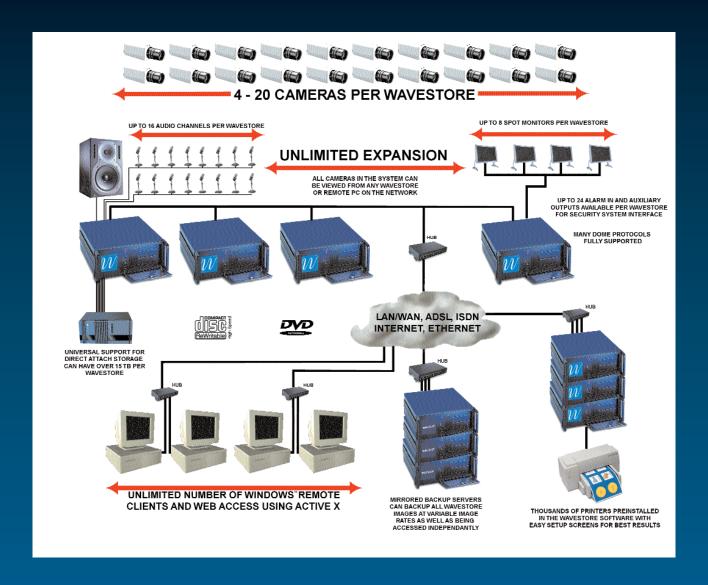
Dennard, Forward Vision, JVC, Kalatel, Panasonic, Pelco, Philips, Samsung, Sensormatic, Ultrak, Vicon, VCL, etc. plus BBV & Synectics consoles.

AREA OF INTEREST SEARCH

Mask out the chosen areas and start the automatic search for activity over any period of time.

EXPORT TO DVD/CD

Multiple camera image clips can be copied to DVD or CD together with 'waveplayer' run-time software. MPEG-2 output plays on home DVD machines, or on a PC with programs like Windows Media Player™.



THE TWO IMAGES ON THE RIGHT WERE MADE BY AWARE INC (www.aware.com) AND WERE USED IN AN ARTICLE IN THE MAY 2001 ISSUE OF ADVANCED IMAGING.

THE ARTICLE CONCERNED THE ADOPTION OF THE WAVELET ALGORITHM AS THE NEW JPEG 2000 STANDARD. THE COMPRESSION METHOD USED BY WAVELET TECHNOLOGY IS BASED ON DEVELOPMENT WORK BY AWARE INC.





7k file

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