

Powerful Video Recording and Management Solution

The Wavestore GRANITE is a well featured design able to record combinations of analogue & network (IP and megapixel cameras) with optional RAID support

Designed for high availability recording applications, the Wavestore GRANITE is a robust solution for remote monitoring and recording of analogue, IP & megapixel cameras. GRANITE supports up to 32 analogue channels plus up to 32 channels of H.264, MxPEG, MPEG-4 or M-JPEG recording, and removable SATA-2 hard disks providing long-term recording (16 hard disks trays).

GRANITE is a complete digital video recording design that is easy to install and set up, able to record video images from combinations of analogue, IP and Megapixel cameras using different protocols simultaneously, and supported with real-time monitoring using the web.

Multiple Wavestore recorders can be configured into a server group to support large and distributed security and surveillance applications.

The Wavestore remote client software enables you to monitor multiple video recorders securely and copy selected video images simply and easily. Simple drag and drop function enables each user to create unique multiple display preferences.

The Wavestore GRANITE is a robust and reliable design that is easily installed and is supplied with a 2+1 redundant power design with a power consumption of typically 350 Watts (depending upon the system configuration).

It is an ideal solution for casinos, town centre, airport, port, high integrity industrial & commercial premises, government offices and police and custodial applications.



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- Rugged and reliable Linux design provides an ultra stable and reliable recording solution
- **Configuration options**
 - **DVR** 4, 8, 16 or 32 analogue camera inputs
 - **NVR** 4, 9, 16, 32 or 64 IP/megapixel inputs
 - **HVR** up to 32 analogue + up to 32 IP and megapixel camera inputs
- High quality recordings in Wavelet, H.264, MPEG-4, MxPEG and M-JPEG modes simultaneously
- Wide range of recording features supported (camera dependent), including IP PTZ control
- Multiple Wavestore recorders can be networked to monitor many cameras over LAN or WAN
- Very fast data search by date & time, or variable speed slider (forward and reverse)
- Supports up to 16 SATA-2 hard disks (Also supports external storage).
- Simple to install and operate with embedded camera protocols.
- Uncomplicated camera licensing system, easily upgradable through 4, 9, 16 and 32 input options
- Digital zoom supported in monitoring and playback modes using a wheeled mouse (Virtual PTZ)
- Simple drag and drop function to create your unique multiple display preferences
- Multiple users enabled with unique authority profile (5 users is the default)
- Powerful detailed event and system logs securely maintained
- Automatic system re-start when power resumes after power loss
- Simple video backup for easy recording of data to CD, DVD or USB.

Wavestore GRANI TE

The complete video & audio recording solution



System specifications

Capability	Record, display and control analogue, network (IP and Megapixel) cameras
Video protocols	Analogue - Wavelet or H.264. IP - Motion JPEG, MxPEG, MPEG-4 and H.264
No of camera inputs	Up to 32 analogue and up to 32 IP and megapixel camera inputs concurrently (Number of camera licences can be increased from 4 to 9, 16 and 32 quickly and easily)
Operating System	Embedded Linux platform
Cameras supported	Acti, Arecont, Axis, Basler, IQEye, JVC, Lumenera, Mobotix, Panasonic, Sanyo, Sony (See web site for current listing)
Camera set-up	Fast camera set up with drop down menus and easy to use set up routines. (Includes direct access to the camera web browser set-up)
Recording formats	Prime, Time Lapse and Alarm (assignable to different storage drives)
Network Bandwidth	High speed Gigabit LAN
Network support	NAS & SAN recording via high speed iSCSI interface
NAS storage volume	Up to 64 Terabytes of network storage
Camera network	Seamlessly scalable using multiple recorders to support hundreds of video inputs
Multiple servers	Seamless multi-server view of all cameras in a network
Motion Detection	Intelligent configurable video motion detection support
PTZ Support	PTZ for analogue & IP cameras supported (see web site for status)
Operating conditions	5 to 40°C (40 to 104°F). Humidity 20 to 40% RH (non-condensing)
Diagnostics	Remote, secure diagnostics and repair functionality (subject to the availability to the network for remote access)
Power consumption	Typical 350 Watts power consumption (rating varies according to specific configuration)
Remote software	5 user licenses of the Windows PC client software included as standard (Additional user licences available)
Systems interface	Flexible SDK for third-party integration or customisation

Client (Remote control) specifications

User Interface	Powerful & easy to use Graphical User Interface (GUI)
Platforms	Operates on a Windows PC (2000, XP, Vista and Windows 7)
Functions supported	All parameters available (subject only to user permissions applied)
Playback functions	Live or archive images (Super-fast FIND of images)
Search options	Search by date & time (waterfall), by slider forwards & backwards or by motion detection
Display options	Multiple 1, 4, 9, 13 and 16 way display options for each unique user
Display images	Full screen display for any display option, plus digital zoom
Digital PTZ	Full 3 axis control using a wheeled mouse or joystick
Export video	Single or multiple image clips can be exported to CD or DVD or USB
Time synchronisation	Date & time embedded on all images & can be synchronised with an external NTP source
Languages supported	English, German, French, Spanish, Portuguese, Hungarian, Italian, Russian, Turkish & Japanese
Viewing options	Simultaneous multiple languages supported on different screens

Product Designator		Example R08M1-2000-H04-GOLD			
R	08	M1	2000	H04	GOLD
PRODUCT RANGE DESIGNATOR	NUMBER OF ANALOGUE INPUTS	ANALOGUE COMPRESSION CARD & QTY	STORAGE (GIG) (8000)	NUMBER OF IP INPUTS	SYSTEM TYPING
Options see	Options see	Options see	Options see	Options see	Options see
O = Opal	4	M = Wavelet Compression 100fps global	500	4	SILVER
L = Little	8		1000	8	GOLD
T = Topaz	16	H = Wavelet Compression 200fps global	1500	16	PLATINUM
C = Crystal	24		2000	32	
P = Pearl	32	V = H.264 Compression 25fps all inputs	2500	64	
R = Rock			3000		
G = Granite			Refer to data sheet for maximum values		

Refer to product datasheets for detailed features and configurations.

Extended 4U 19" design Dimensions (D x W x H)

740 x 432 x 176 mm
(29.15 x 17 x 6.93 ins)

Shipping size

855 x 630 x 315 mm
(33.66 x 24.8 x 12.4 ins)

Gross weight (boxed)
35kg (with 8 HDD)

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