



NEURODYNAMICS

# Witness

The total surveillance solution from Neurodynamics





# Digital video storage and transmission

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## Digital video storage and transmission

- High quality 'wavelet' images
- Remote retrieval and transmission with alarm dial out
- Combined continuous, event and scheduled recording
- Full triplex; synchronous record, replay and archive
- Full frame rate recording on all channels simultaneously
- Hard disc storage up to 25 terabytes
- Archive/backup to digital tape, CD, DVD or JAZ
- Intelligent video motion detection
- Simple to use interface
- 1, 4, 8, 16 and 32+ camera scaleable versions
- Sophisticated automatic data and alarm handling
- Fully integrated automatic numberplate recognition



# Witness

**Witness is a range of high quality digital video recorders with advanced remote access capabilities.**

Witness offers large system capability and a simple upgrade path. A one-camera system can be expanded in a modular fashion to facilitate up to a potential 250 inputs per system.

Using advanced Wavelet technology, Witness offers second to none performance. Boasting synchronous record, replay and archive, with capture at up to full frame rate on all channels simultaneously, Witness outperforms the competition, both analogue and digital.

Witness also offers groundbreaking storage capabilities with hard disc options ranging from 6.4 Gbytes to a huge 25 Terabytes, together with an array of advanced archive storage options to suit all requirements.

Totally flexible system configuration allows Witness to be tailored for the widest range of applications. Any combination of recording type can be used - triggered event, pre-post event, snapshot, time-lapse, as well as prescheduled recording.

Witness also provides flexible remote surveillance capabilities, offering auto dial out on alarm, dial in, or continuous image transmission, all across wide or local area networks. Live images can be retrieved and reviewed, system parameters can be configured and diagnosed remotely.





### **Total recording flexibility**

All Witness systems are totally flexible, allowing recording at any image update rate, from slow time-lapse right up to full frame rate on each camera independently. Choose any combination of continuous, scheduled, event-triggered (with pre-event), and snapshot recording.

### **Storage**

Witness systems store recorded images directly to hard disc, with storage capacity and duration configurable for all applications. Multiple circular buffers allow images from selected cameras to be stored for differing periods.

For longer-term storage, backup/archive media can be selected to best match operational requirements. Selecting from DVD, CD, JAZ or digital tape allows a system to be tailored to suit your exact requirements.

### **Intelligent video motion detection**

All Witness systems include sophisticated VMD, designed for external as well as internal applications. It offers a level of sophistication and resilience to false alarms, previously associated only with costly task specific devices.

### **Networking**

Witness systems incorporate the most versatile remote access facilities available today. Remote locations can be monitored via dial in or automatic dial out on alarm. Once accessed, live images can be monitored, and recorded images can be retrieved and reviewed. Remote relays offer the facility to control items such as

barriers or building management systems and bi-directional audio allows communication with remote site visitors or intruders. For projects with more than one site, multi-site prioritisation ensures that key locations or events always gain monitoring priority.

Witness remote facilities can operate over a host of communication networks, including ISDN, PSTN, GSM, Intranet and Internet.

### **Alarm data handling**

Image recording can be linked directly with incoming data streams. Keywords, number or sequences can activate image capture. Images can be quickly retrieved using date, time and camera information or any other associated data field.

### **Dynamic PTZ**

Witness supports drivers for a host of standard commercially available telemetry, allowing simple, cost-effective inclusion of fully functional cameras at remote locations. Automatic control of PTZ cameras can be tied into alarm activity.

### **Automatic Numberplate Recognition 'ANPR'**

Witness is now available with state of the art ANPR. Advanced neural network techniques are employed to provide robust recognition of numberplates under all conditions, even at motorway speeds. Requiring only standard camera technology, Witness ANPR is a cost-effective package of high-reliability recognition and digital video storage.





### The flexible Witness range suits all applications.

In retail applications Witness can help to prevent shrinkage and protect staff by monitoring merchandising space and till transactions as well as exposed areas such as cash offices, stock rooms and car parks.

Witness is the ideal security solution for use at petrol stations by linking captured images with EPOS data and utilising numberplate recognition to prevent drive-off crime.

In industrial and commercial applications Witness is now the variable replacement for traditional analogue systems. By solving difficulties such as inflexible recording, cumbersome tape management, deteriorated image quality and frequent maintenance requirements, Witness adds value and flexibility to any new or existing CCTV system

Already successful with financial institutions, Witness provides an advanced security solution for monitoring all forms of branch activity and cash machine transactions. The need of corporate properties can be met by Witness large system solutions.

In towns, shopping centres, sports and leisure locations, Witness allows large numbers of cameras to be recorded, monitored and intelligently managed via one powerful system. By simplifying operator interaction, deployed CCTV can be exploited more effectively.

For utilities and transportation networks, Witness represents a cost-effective solution to management of remote CCTV deployed over a wide area.





## Technical Specification

Video inputs	<ul style="list-style-type: none"><li>- 1, 4, 8, 16 or 32 camera units</li><li>- Larger systems configured using increments of 16 to a maximum of 250 cameras</li><li>- PAL or NTSC Colour, 1V p/p composite</li><li>- Selectable 75 ohm termination</li><li>- BNC connectors</li></ul>
Recording rate	<ul style="list-style-type: none"><li>- Maximum of 30 Images Per Second simultaneously on each channel</li><li>- No external synchronisation is required</li></ul>
Video output	<ul style="list-style-type: none"><li>- SVGA with optional CCIR analogue output</li></ul>
Disc storage	<ul style="list-style-type: none"><li>- 6.4 Gbytes minimum, 400 Gbytes maximum per cameras</li><li>- 25 terabytes maximum per system</li></ul>
Archive storage	<ul style="list-style-type: none"><li>- JAZ Drive, Digital Tape, CD, and DVD, image streaming, cached images, instant replay</li></ul>
Interface	<ul style="list-style-type: none"><li>- On screen, user-friendly non-windows interface with touch screen option</li></ul>
Compression	<ul style="list-style-type: none"><li>- Wavelet, with compression ratio variable on a per camera basis</li><li>- Compressed image file size from 8-50 Kbyte typical</li></ul>
Resolution	<ul style="list-style-type: none"><li>- 720 x 288 pixels</li></ul>
Security	<ul style="list-style-type: none"><li>- Multiple levels of password protection - engineer, supervisor, administrator and user</li><li>- Image authentication with audit trail</li><li>- Complete user activity log</li><li>- Selective camera barring</li></ul>
VMD	<ul style="list-style-type: none"><li>- Highly configurable video motion detect on every channel</li></ul>
Telemetry control	<ul style="list-style-type: none"><li>- Full function remote telemetry for all leading manufacturers</li></ul>
ANPR	<ul style="list-style-type: none"><li>- Optional fully integrated automatic numberplate recognition</li></ul>
Transmission	<ul style="list-style-type: none"><li>- TCPIP over GSM, PSTN, ISDN, LAN, WAN Intranet and Internet</li></ul>
Alarm Inputs	<ul style="list-style-type: none"><li>- One optically isolated edge sensitive 12 Volt input for every camera</li></ul>
Alarm outputs	<ul style="list-style-type: none"><li>- Optional volts free output for every camera</li></ul>
Operating systems	<ul style="list-style-type: none"><li>- Windows NT 4.0</li></ul>
Serial interface	<ul style="list-style-type: none"><li>- Optional RS232, RS422 or RS485 serial communications</li></ul>
Dimensions	<ul style="list-style-type: none"><li>- Laptop, Mini Tower unit 4 U 19" rack-mount module</li></ul>
Power supply	<ul style="list-style-type: none"><li>- 12VDC to 240V Ac from 200W</li></ul>
Operating Temperature	<ul style="list-style-type: none"><li>- 0-40 degrees Celsius</li></ul>

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