



### Features

- 16 camera inputs (upgradeable)
- 100pps CIF equivalent record rate (50pps @2CIF)
- 500 or 1000 Gbytes hard drive capacity (upgradeable)
- Built-in DVD/CD writer for backup—just press the “Burn” key
- Removable hard drive with key lock
- 31 day recording (programmable 1-999)
- Built-in manual - just press HELP key
- Triplex operation - record, live & playback
- Records automatically on power-up
- Built-in easy-to-use keyboard
- Spot monitor
- Supports BNC monitor output on remote keyboards
- Activity detection
- 16 Alarm Inputs
- Covert (hidden) cameras
- Day/night, weekday/weekend record, alarm and activity timers
- Digital authentication
- Ethernet for remote viewing on a PC
- Email alerts
- User configurable multiple passwords
- Watchdog timer protection
- High reliability fan-cooled power supply
- High reliability fan-cooled hard drive
- Not PC or Windows based
- Manufactured in the UK

### Order Codes

- Vi305-G500-16 Digital Recorder, 16 Cameras, 50pps@2CIF, 500G  
Vi305-G1000-16 Digital Recorder, 16 Cameras, 50pps@2CIF, 1000G

### Accessories

- Vi-K1 Remote Keyboard  
Vi-K2 Joystick Keyboard  
Vi-K3 Enhanced Joystick Keyboard  
Vi-RA11 19" Rack Adaptor, 3U  
Vi-Viewer IP viewer (included)  
Vi-ViewerPro Advanced IP viewer with maps

### Overview

The Videoswitch Vi-series digital recorder (DVRs) provides rock solid 12 or 16 camera digital recording at an affordable price. It is easy to operate and provides excellent performance and features for that suit most installations. Quality, reliability and long term product support is assured by Videoswitch, leading UK manufacturer of digital C.C.T.V. recorders.

The Vi series have become established as the first choice in many retail and other applications due to their reliability, ease of use and high image quality. To support the latest hard drive technology, SATA enabled drive trays are now available on all Vi models. The 50pps 2CIF record rate is equivalent to 100pps CIF but provides twice the image quality.

Videoswitch, Ocean House, Redfields Industrial Park, Redfields Lane, Church Crookham, Hants GU52 0RD

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This product is designed and manufactured to the highest standards within our ISO9000 certified quality assurance system. It is certified to meet the CE mark requirements in accordance with the 89/336/EEC Electromagnetic Compatibility and 73/23/EEC Low Voltage directives. Due to a policy of ongoing product development, specifications may change without notice.



Vsd550E

## Technical Data

### Storage

Hard drive 500 G to 2T bytes, removable  
 DVD/CD writer Quick and easy backup to DVD/CD using "BURN" key. DVD/CDs play back on both DVR and PC (without software installation)

### Digital Recording/Replay

Camera inputs 16  
 Maximum image rate 50 pictures per second record rate at 2CIF resolution  
 Image retention 1 to 999 days, image rate calculated automatically or set via menu  
 Colour/Monochrome Auto sense  
 Gain, Brightness, Colour Adjustable via menu  
 Resolution 720 x 576 pixels x 16.8 million colours  
 Image size 8k to 40k bytes, dynamically variable, typically 17K  
 Compression method Wavelet  
 Hardware/Software Embedded RISC processor, proprietary Videoswitch operating system (non PC)  
 Simultaneous processing Record, Live, Play, Remote and CD backup  
 Image authentication Every image is tagged with time, date, image number and other information and is protected with a digital security signature for authentication  
 Video inputs 0.5 to 1V pk-pk, 75 Ohms (switchable via menu), composite PAL (BNC)  
 Maximum record rate 50 images per second at 2CIF resolution

### Display

Main monitor outputs 1V pk-pk composite PAL (BNC), full screen, PIP, quad, 9-way and 16-way split, programmable titles  
 Spot monitor output 1V pk-pk composite PAL (BNC), full screen  
 Auto sequencing 1-99 seconds, full and quad, main and spot monitors  
 Covert (hidden) Any cameras may be hidden from view on the monitors

### Control and Interface

Keypad 35 keys  
 Remote keyboard ports 2 ports, each with built-in balun for twisted pair video connection to remote keyboards with attached monitors  
 Passwords 4 passwords with fully programmable rights  
 Search modes Date/time search, sweep, event list, incident list  
 Timers Record, alarm and activity (weekday and weekend)  
 Alarm inputs 16 inputs, normally open or normally closed volt-free contacts  
 Activity detection 16 x 12 zones, programmable sensitivity  
 Relays 2 relays, 24Vdc, 200mA max normally open or closed  
 Alarm/activity response Pull-up full screen display, maximum record rate  
 Event log 10,000,000 alarm, activity and system events  
 Incident list Up to 10 incidents may be saved onto one CD  
 Watchdog timer In the event of any unexpected condition, the system will automatically restart

### Remote Viewing

Ethernet 100baseT, TCP/IP, for LAN, WAN, broadband. View on PC using ViViewer or ViViewerPro

### Power, Physical & Environmental

Mains Power input 90-135 Vac 2 Amps or 180-265 Vac 1 Amp, 47-63Hz  
 Temperature 5 to 35deg C (operating), -10 to 40deg C (storage)  
 Humidity 10 to 90% non-condensing  
 Dimensions/Weight (Unit) 355mm x 100mm x 390mm (WxHxD), 7kg  
 Dimensions/Weight (Boxed) 480mm x 295mm x 580mm (WxHxD), 9kg

### Accessories Included

Cables Mains (IEC/13A), Ethernet (CAT5)  
 Other accessories Vi-X4 Alarm/Relay break-out module, drive keys, blank CDs, user manual  
 PC Software "Vi-Viewer" remote access IP viewer

### Upgrades

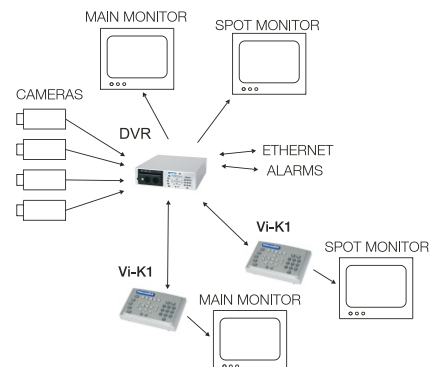
Firmware upgrades Available on CD and the Internet (free of charge)  
 Hard Drive Upgrades Replacement and upgrade hard drives available.

## Technical Data

The table below show examples of the relation between record image rates, hard drive capacity and number of days data retention. Divide by number of cameras to get the rate per camera. These examples are based on 17k image size.

Capacity	12.5pps	25pps	50pps
500 Gbytes	28 days	14 days	7 days
750 Gbytes	42 days	21 days	10 days

## Example Configuration



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