



Features

- 12 or 16 camera inputs (upgradeable)
- Cascade multiple DVRs for up to 256 cameras and 64T bytes of storage
- 100pps CIF equivalent record rate (50pps @2CIF)
- 500G to 4T bytes hard drive capacity (upgradeable)
- Built-in DVD/CD writer for backup—just press the “Burn” key
- Dual removable hard drives 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
- Wireless perimeter PIR option (64 PIRs per DVR)
- 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

Vi405-G500-12	Digital Recorder, 12 Cameras, 50pps@2CIF, 500G
Vi405-G750-12	Digital Recorder, 12 Cameras, 50pps@2CIF, 750G
Vi405-G1000-12	Digital Recorder, 12 Cameras, 50pps@2CIF, 1T
Vi405-G1500-12	Digital Recorder, 12 Cameras, 50pps@2CIF, 1.5T
Vi405-G2000-12	Digital Recorder, 12 Cameras, 50pps@2CIF, 2T
Vi405-G500-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 500G
Vi405-G750-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 750G
Vi405-G1000-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 1T
Vi405-G1500-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 1.5T
Vi405-G2000-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 2T
Vi405-G4000-16	Digital Recorder, 16 Cameras, 50pps@2CIF, 4T

Accessories

Vi-K1	Remote Keyboard
Vi-K2	Joystick Keyboard
Vi-K3	Enhanced Joystick Keyboard
Vi-E2	8-way Star Expander
Vi-E5	M-series 16-way Port Expander
Vi-RA11	19” Rack Adaptor, 3U
Vi-WPIR	Wireless PIR system
Vi-Viewer	IP viewer (included)
Vi-ViewerPro	Advanced IP viewer with maps

Overview

The Videoswitch Vi-series digital recorder (DVRs) provides rock solid 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

www.videoswitch.co.uk

Tel: 01252-851510 Fax: 01252-851296 Email: sales@videoswitch.co.uk

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 drives 500 G to 4T bytes, SATA, dual 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 12 or 16 with loop-through
 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 outputs (x3) 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
 Keyboard ports (x4) RS485 ports, with built-in balun for twisted pair video connection to remote keyboard with attached monitors
 Cascade port RS485 port for linking to another DVR
 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
 Wireless PIR Interface 64 perimeter PIR detectors may be added
 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
 Telemetry Up the co-ax (BBV) and RS485, 20mA and RS232 (multiple protocols)

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 105mm x 400mm (WxHxD), 6kg
 Dimensions/Weight (Boxed) 455mm x 205mm x 500mm (WxHxD), 8kg

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

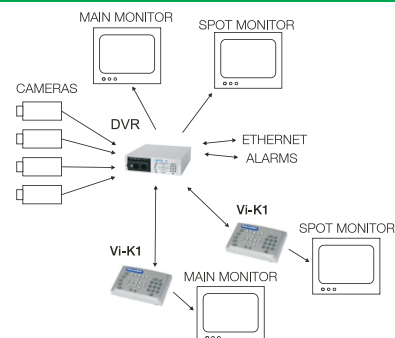
Firmware upgrades Available on CD and the Internet (free of charge)
 Hard Drive Upgrades Replacement and upgrade hard drives available

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
250 Gbytes	14 days	7 days	3.5 days
500 Gbytes	28 days	14 days	7 days
750 Gbytes	40 days	20 days	10 days
1000 Gbytes	56 days	28 days	14 days
1500 Gbytes	80 days	40 days	20 days
2000 Gbytes	112 days	52 days	28 days

Example Configuration



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