

Vi-M3 MPEG4 Digital Recorder



Features

- 200 pictures per second
- 12 or 16 camera inputs (upgradeable)
- MPEG4 compression
- CIF, 2CIF and 4CIF (D1) image quality options
- Cascade multiple DVRs for up to 256 cameras and 64T bytes
- 500 Gbytes to 4Tbytes (upgradeable)
- Dual removable hard drives (SATA) with key lock
- Built-in DVD writer for backup
- USB ports for backup
- VGA and BNC monitor outputs
- 4 independent monitor outputs (main and three spot monitors)
- Simultaneous record and play
- Alarms and activity detection
- Covert cameras (hidden)
- Dual channel audio
- Up-the-coax and RS485 dome control built in
- Video loss and cloak detection
- Digital authentication
- Ethernet for remote IP viewing on a PC
- Password protected menu
- Supports remote keyboard with BNC monitor output via CAT5
- Watchdog timer protection
- Double fan-cooled for high reliability
- Not PC or Windows based
- Manufactured in the UK

Order Codes

Vi-M312G500	Digital Recorder, 12 Cameras, 200pps, 500G
Vi-M312T1	Digital Recorder, 12 Cameras, 200pps, 1T
Vi-M312T2	Digital Recorder, 12 Cameras, 200pps, 2T
Vi-M312T4	Digital Recorder, 12 Cameras, 200pps, 4T

Vi-M316G500	Digital Recorder, 16 Cameras, 200pps, 5000
Vi-M316T1	Digital Recorder, 16 Cameras, 200pps, 1T
Vi-M316T2	Digital Recorder, 16 Cameras, 200pps, 2T
Vi-M316T4	Digital Recorder, 16 Cameras, 200pps, 4T

<u>Accessories</u>

Vi-K1	Remote Keyboard
Vi-K2	Joystick Keyboard
Vi-K3	Enhanced Joystick Keyboard
Vi-E2	8-way Star Expander for domes
Vi-E5	M-series 16-way Port Expander, 1U
Vi-RA11	19" Back Adaptor, 3U

Vi-RA11 19" Rack Adaptor, 3
Vi-Viewer IP viewer (included)

Vi-ViewerPro Advanced IP viewer with maps

Overview

The Vi-M series Digital Video Recorders (DVR) use the latest MPEG recording technology to compress the maximum amount of video at the highest quality and the highest frame rates onto the hard drives. At the same time the latest SATA hard drives are used, providing reliability and a wide choice of capacity to suit the needs of the installation and the budget. Hard drives in all Videoswitch DVRs are removable to allow easy replacement and upgrade. Automatic monitoring of drives is featured and the user is alerted if replacement is due.

Videoswitch Digital Video Recorders (DVR) are designed and manufactured in the UK to the highest quality standards by Videoswitch, the leading UK digital recorder manufacturer. Users have the reassurance of a premium brand name and a stable and reliable UK built product, backed up by both presales and post-sales technical assistance and long term product support.

Videoswitch maintains stability in the product range so users can therefore commit to roll-outs that may extend over many months in the knowledge that models will not become unavailable during the process. When new products are designed, we aim to maintain familiarity of operation in the keys and menus so users can readily switch to newer models.

Videoswitch provides hardware and software upgrades so installed products benefit from subsequent improvements and additions of features in the future. This includes upgrading of hard drive capacity, increasing the number of camera inputs and the addition of new software features. Most upgrades can be performed in-situ without having to remove the product.

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Vsd550F



Vi-M3 MPEG4 Digital Recorder

Technical Data

Storage

Hard drives (x2) SATA, dual hard drives, 500G to 4Tbytes (upgradeable)

DVD/CD writer Quick and easy backup to DVD or CD using just a few key presses. DVD/CDs play back on both DVR and PC

(without software installation)

USB External USB storage devices (e.g. memory sticks) may also be used for backup

Digital recording/Replay

Camera inputs 12 or 16 (with loop-through)

Maximum record rate 200 pictures per second (CIF), 100 (2CIF/4CIF)

Image retention 1 to 999 days, image rate calculated automatically or set via menu

Colour/Monochrome Auto sense Video gain Auto (AGC)

Record resolution 704 x 576 (4CIF), 704 x 288 (2CIF), 352 x 288 (CIF)

Display resolution 720 x 576 pixels x 16.8 million colours

Average image size 3k to 20k bytes Compression method MPEG4

Hardware/Software Embedded processor, proprietary Videoswitch software Simultaneous processing Record, Live, Play, Remote and CD/DVD 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)

Display

Main monitor output VGA and 1V pk-pk composite PAL (BNC), full screen, quad, 9-way split, 16-way split, programmable titles

Spot monitor outputs 2 (Vi-M312) or 3 (Vi-M316) independent full screen outputs, 1V pk-pk composite PAL (BNC)

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 (x2) 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, event log

Timers Record, alarm and activity (weekday and weekend)

Alarm inputs 16 inputs, normally open or normally closed volt-free contacts

Motion 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, programmable record rate

Event log Alarm, activity and system events

Incident list Up to 10 incidents may be saved onto one CD/DVD Dome control Up-the-coax (BBV) and RS485 (Videoswitch VXP4, PelcoD)

Watchdog timer In the event of any unexpected condition, the system will automatically recover

Remote Viewing

Ethernet 100baseT, TCP/IP, for LAN, WAN, broadband. View on PC using ViViewer, VIViewerPro, Internet Explorer

Power, Physical & Environmental

Power input 90-265 Vac input, 47-63Hz, 100W

Temperature 5 to 35deg C (operating), -10 to 40deg C (storage)

Humidity 5 to 95% 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-X16 Alarm/Relay break-out module, drive keys, blank CDs, user manual

PC Software "Vi-Viewer" remote access IP Viewer

<u>Upgrades</u>

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

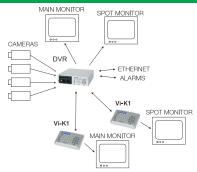
Camera input upgrades The number of camera inputs can be upgraded from 12 to 16 with a Vi-E6 channel card

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 6k image size.

Capacity	50pps	100pps	200pps
500 Gbytes	19 days	9.6 days	4.8 days
1 Tbytes	38 days	19 days	9.6 days
2 Tbytes	72 days	38 days	19 days
4 Tbytes	152 days	76 days	38 days

Example Configuration



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