Videoswitch

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DATASHEET
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These easy-to-use C.C.T.V. Multiplexers provide excellent performance and picture quality combined with a comprehensive set of features. The latest technology has been used in these new generation products to deliver maximum reliability and value for money.

Simplex
Simplex Operation
Loop-Through
S-Video Record & Play

Order Codes:
VM-2002M (mono)
VM-2002C (colour)

Duplex *Plus*
Duplex Operation
Dual Multi-screen Outputs
Loop-Through
S-Video Record & Play
19" 1U Case

Order Codes:
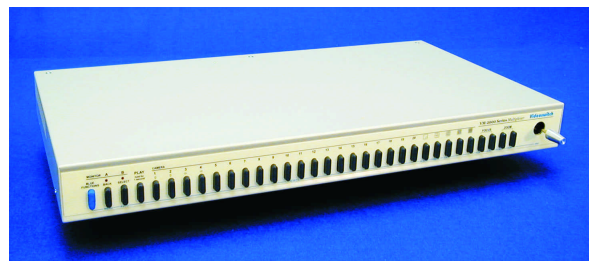VM-2003M (mono)
VM-2003C (colour)

Telemetry Duplex *Plus*
Duplex Operation
Dual Multi-screen Outputs
Joystick for Dome and Receiver Control
Coax and Twisted Pair Telemetry
Loop-Through
S-Video Record & Play
19" 1U Case

Order Codes:
VM-2004M (mono)
VM-2004C (colour)

All These Multiplexers Feature...

- Easy Set Up
- Very High Image Quality
- 5 Year Warranty
- 20 Camera Inputs
- 2 Monitor Outputs (one may be configured as Public)
- Both Monitors can display all Screen Modes and Text
- Accept Colour, Monochrome and Switching Cameras
- 50 Fields per Second Maximum Multiplexing Rate (PAL)
- Time-Lapse Multiplexing up to 960 Hour Mode
- 720 x 546 Image Resolution (PAL)
- Analogue or Digital Live Full Screen Display
- Quad Displays
- 9-Way, 16-way and 20-way Multi-Screen
- Picture-in-Picture
- Freeze Frame
- x4 Digital Zoom
- Anti-Flicker Mode for Multi-Screen Images
- Activity Detection, 14 x 10 zones with sensitivity control
- Alarm Inputs (individually set to normally open/closed)
- Video Loss detection
- Covert (Hidden) on any Cameras

- Automatic VCR Synchronisation
- Auto Sequencing
- Random Sequencing
- Remote Control via RS232, RS485 and RS422 using Videoswitch VXP-4 Protocol
- Time and Date, Battery Backup
- 16 Character Camera Identification
- Daily Timers for Alarms/Activity/Time-Lapse Modes
- Alarm Relay Contacts
- Selectable Termination on each Camera
- Adjustable Gain (Brightness) on each Camera
- PAL and NTSC
- Password Protected Menus
- Different Password Access for User, Manager & Installer
- Powered via External 12Vdc Linear Supply
- Designed, Manufactured and Supported in the UK

Duplex *Plus* is the Videoswitch feature which enables you to display a different multi-screen image on each monitor.

20 Camera Multiplexers

VM-2000 Series

VM-2000 Series Technical Data

Multiplexing

Max Image Rate (PAL/NTSC)	50/60 per second (3 hour mode)
Configuration	Auto Configured (using VCR Sync Cable) or Set via Menu
Recording Mode	Full Field Images.

Digital Frame Stores

PAL/ NTSC	Auto Sense
Colour/Monochrome	Auto Sense
Sampling	13.5MHz CCIR601 (4:2:2)
Active Pixels per Line	720
Active Lines	PAL: 546, NTSC: 480
Colours/Grey Levels	16.8 Million/256

> These 20 camera multiplexers provide a vital 4 additional inputs compared with standard 16 camera units.
>
> As with other VM-series multiplexers, these can display a different Multi-Screen on each monitor, and feature 50 field per second multiplexing.

Live Display Modes

Simplex	Full Screen Only
Duplex *Plus*	Full Screen/Picture-in-Picture/Quad/x9, x16 & x20 Multi-Screen/Freeze/Zoom

Replay Display Modes

Simplex & Duplex *Plus*	Full Screen/Picture-in-Picture/Quad/x9, x16 & x20 Multi-Screen/Freeze/Zoom

Video Inputs/Outputs

Composite	0.5V to 2V pk-pk 75Ω (Individually Adjustable via Menu)
S-Video Record/Play	1V pk-pk 75Ω
Camera Termination	75Ω or High Impedance (Individually Set via Menu)
Loop-Through	Provided for cameras 1 to 12. External T-adaptors required for remainder.

Alarms

Contact Inputs	Normally Open/Closed (10kW pull-up to 5V on each input)
Polarity	Individually Set via Menu
Activity Detection	14 x 10 zones, Adjustable Sensitivity and Feature Size
Actions on Alarm	Change Multiplexing Mode, Pull-up Full-screen & Auto-Sequence
Relay Contact Rating	24Vdc 500mA max, Change-over Contacts

VCR Synchronisation

Camera Switch Pulse Input	3-12V Pulse or Open Collector (10kΩ pull-up to 5V may be enabled/disabled via menu)

Remote Control

Interface	RS232/RS485/RS422, 9600 baud, 8 bits no parity or 7 data bits & odd parity
Compatibility	Videoswitch VXP-4 Protocol

Dome/Telemetry Control

Interface	RS232/RS485/RS422/20mA Current Loop, 7812 or 9600baud, 8 bits no parity
Compatibility	Domes (various makes) and all Videoswitch Receivers

Power

DC Input	12 to 24Vdc 2Amps max
Mains Adaptor	230Vac Input (115V option), 30W max

Dimensions

Unit	438 x 284 x 52 mm
Power Supply	114 x 74 x 62 mm
Packaged	582 x 450 x 120 mm

Weight

Unit	3.5 Kg
Power Supply	1.4 Kg
Packaged	5.8 Kg

Environmental

Humidity (non-condensing)	5 to 95%
Operating Temperature	0 to 40° C
Storage Temperature	-20 to 60° C

Included Accessories

User/Installation Manual
Power Supply
VCR Sync Cable
Alarm Connector

Optional Accessories

Remote Keyboards
Rugby Clock Receiver
Remote Control Software
VXP-4 Communications Manual
Rack-mount Ears

Typical Configuration

Cameras (x20)

Monitors (x2)

Multiplexer

Video Signals   VCR

VCR Synchronisation

Due to a policy of continual product enhancement, specifications may change without notice.