

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.

### **Mini-Simplex**

Simplex Operation  
"Mini" Case

Order Codes:  
VM-801M (mono)  
VM-801C (colour)



### **Mini-Duplex Plus**

Duplex Operation  
Dual Quad Outputs  
"Mini" Case

Order Codes:  
VM-802M (mono)  
VM-802C (colour)



### **Duplex Plus**

Duplex Operation  
Dual Quad Outputs  
Loop-Through  
S-Video Record & Play  
19" 1U Case

Order Codes:  
VM-803M (mono)  
VM-803C (colour)



### **Telemetry Duplex Plus**

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

Order Codes:  
VM-804M (mono)  
VM-804C (colour)



## **All These Multiplexers Feature...**

- Easy Set Up
- Very High Image Quality
- 5 Year Warranty
- 8 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
- 8-Way Multi-Screen (text in centre)
- 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.

## VM-800 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

### Live Display Modes

Simplex	Full Screen Only
Duplex <i>Plus</i>	Full Screen/Picture-in-Picture/Quad/x8 Multi-Screen/Freeze/Zoom

### Replay Display Modes

Simplex & Duplex <i>Plus</i>	Full Screen/Picture-in-Picture/Quad/x8 Multi-Screen/Freeze/Zoom
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### 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)

### Alarms

Contact Inputs	Normally Open/Closed (10kΩ 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)
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### 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 9600 baud, 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 (19"/ Mini" models)	438 x 284 x 52 / 200 x 257 x 52 mm
Power Supply	114 x 74 x 62 mm
Packaged (19"/ Mini" models)	582 x 450 x 120 / 395 x 267 x 120 mm

### Weight

Unit (19"/ Mini" models)	3.5 / 1.6 Kg
Power Supply	1.4 Kg
Packaged (19"/ Mini" models)	5.8 / 3.6 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 (19" models only)

All VM-Series multiplexers allow the images from a number of cameras to be stored onto a single video tape. The images sent to the VCR change up to 50 times a second (every field) to ensure the maximum possible amount of information is recorded.

Duplex *Plus* models can display a different multi-screen image (quad) on each of the two monitors. It is worth noting that two 12" monitors displaying two quads provide larger, higher resolution images than a single 20" monitor displaying a 9-way split.

**Typical Configuration**

