

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-1201M (mono)  
VM-1201C (colour)



### **Duplex Plus**

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

#### *Order Codes:*

VM-1203M (mono)  
VM-1203C (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-1204M (mono)  
VM-1204C (colour)



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

- Easy Set Up
- Very High Image Quality
- 5 Year Warranty
- 12 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 & 12-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.

## VM-1200 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/x12 Multi-Screen/Freeze/Zoom

### Replay Display Modes

Simplex & Duplex <i>Plus</i>	Full Screen/Picture-in-Picture/Quad/x8 Multi-Screen/x12 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 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

The telemetry versions of the VM-series Multiplexers have high quality proportional joysticks capable of variable speed control of domes and pan and tilt heads (DC).

In addition, one or more remote keyboards with joysticks can be used to control the system.

**Typical Configuration**

