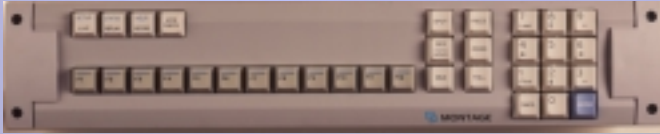


Montage Plus

vision factory



Montage Plus – The Most Advanced Multiplexer in the World

Designed by broadcast TV engineers, and utilising the most sophisticated electronics in the industry, Montage Plus is the second generation Montage multiplexer from The Vision Factory.

Montage Plus eliminates all the generic failings of inferior machines: - poor playback pictures, unidentifiable intruders, fixed-grid screen presentations and severely limited facilities.

The unequalled standard of recording, presentation, playback, flexibility and user-friendliness makes Montage Plus the most advanced multiplexer in the world.

Ultimate transparency and resolution

- The most transparent link yet from camera to tape and display.
- Highest resolution performance from a true 1024 x 625 line video framestore - more than any other multiplexer. (The greater the number of pixels, the clearer the on-screen information and the greater your security.)
- RGB output in addition to Y-C gives incomparable performance.

Flexible configuration

- Input channel configuration in blocks of 8.
- Upgrades in situ from 8, 16, and 24 up to 32 channels.
- Individually switched loop-through facility on all channels.

Customised screens

- User-customised multi-scene presentations allow logical camera groupings to suit particular site needs.
- 12 Hot keys for custom screen presentation storage.
- Instant retrieval of Screen presentations by hot keys or alarm-activation.

High performance recording and playback

- Composite or S-VHS VCR and monitor connections.
- 32 cameras can be recorded in under a second - even faster with fewer cameras.
- Camera captions are recorded as data, allowing them to be removed on replay to provide an unobscured camera view.
- VCR operation verifiable by tape-check button.

The RGB output can be connected to many video printers, providing high quality prints.

Mux function

- Up to 99 multiplexers may be controlled from 1 keyboard when linked using RS422 - to a maximum of 992 cameras.
- Each camera can be assigned a logical number - e.g. unit 2 starts with camera 33, unit 3 with camera 65 and so on.

SuperSpot™

All Montage Plus multiplexers incorporate SuperSpot, a second monitor output capable of displaying multi-scene pictures. SuperSpot is unique to Vision Factory products and provides powerful viewing options:

- Reference monitor. Use SuperSpot to display a reference multi-scene view of multiple cameras and from this select smaller groups, or individual cameras, for surveillance on the main monitor.
- Speedy review of recorded material. Select all cameras for view on SuperSpot whilst performing detailed analysis of single cameras, or groups, on the main monitor.
- Dual operator system. Independent control is available to two separate positions allowing operators to view multi-scenes or single cameras independent of each other.
- Re-synchronised output for 'event recording'. SuperSpot instantly and cleanly re-synchronises to each new camera without rolling, providing the perfect basis for event recording.
- Dual multi-scene display of all cameras. Each monitor can display up to 25 cameras simultaneously, allowing all 32 cameras to be easily displayed, across two monitors.

AMS – Active movement sensing

Put simply, AMS watches all connected cameras and indicates when something moves. AMS uses include: -

- Automatically increasing the rate at which cameras are recorded. If something happens you'll be glad to have as many recorded images as you can get, AMS ensures this.
- Automatically adding a camera to your recording. There's not much sense in recording a camera where nothing happens, but AMS gives the ability to only record the period of activity. For example, a fire exit door may never be used normally, but in the event of a fire a recording could prove invaluable. AMS can detect movement near the door and automatically add this scene to your recording.
- Automatically restructuring monitor displays to logical camera groupings.
- Drawing attention to movement on the monitor screen. Long periods spent observing a CCTV monitor can lead to vital action being missed through lack of concentration. By indicating motion with an on-screen graphic, AMS can quickly draw the operator's attention to what's happening.
- Triggering external events. AMS can activate relays to drive lights, sounders, VCR's etc.

Easy programming

- On-screen menu system.
- Context-sensitive on-screen help eliminates difficulty and tedium.
- Video windows demonstrate effects of operator inputs.
- Reduced installation time.
- Encourages full exploitation of the system.
- Sensitive programming tools safely hidden behind PIN CODES

Specification



Operation

Simplex: One of the following operating modes can be selected at a time

Duplex: Record mode is permanently engaged, one other operating mode can be selected simultaneously.

Operating modes

Live: 2 screen displays of up to 25 cameras in any of 12 user programmable multiscene presentations (defaults provided), or any camera full screen. Freeze and 2:1 zoom are available in full screen mode.

Record: Encoded multiplex of up to 32 cameras to tape with embedded caption, alarm and base camera number data. Time, date and record caption text overlay. 12 user programmable record settings, defaults provided, accommodate both real-time and time-lapse tape recorder modes.

Replay: 2 screen displays of decoded camera pictures from a multiplexed tape or multiplexed transmission system, with display options as Live mode.

VCR Check: Screen display from tape input for checking purposes only. (Cameras are not decoded).

Inputs

Cameras: 8, 16, 24 or 32 Composite video (75R BNC) inputs, expandable in blocks of eight, each with loop through output and individually switched termination. (75R/Hi-Z)

Tape: Selectable between Composite video (75R BNC) or Y-C / SVHS (4 pin mini DIN).

Outputs (all available simultaneously)

Main Screen: Composite video (75R BNC), RGB & Sync (9 pin D) and Y-C / SVHS (4 pin mini DIN).

SuperSpot Screen: Composite video (75R BNC), RGB & Sync (9 pin D) and Y-C / SVHS (4 pin mini DIN).

Tape: Composite video (75R BNC) and Y-C / SVHS (4 pin mini DIN).

Alarms

8 Programmable polarity contact closure inputs, expandable to 32 via optional interface.

2 output relays, NC/NO.

32 Internal AMS alarms.

8 programmable timers.

Control

Two Montage RS422 keyboard ports (front mounted keyboard provided as standard).

Up to 99 units or 992 cameras may be controlled from either keyboard. (Mux function).

NB. Remote keyboard may require a separate 5V DC +/- 0.25V @ 200mA PSU.

Remote RS232 (9 pin DTE) serial port with programmable baud rate (2400 > 57600).

Set-up protected by PIN number.

Comprehensive context sensitive on screen help pages available to aid both set-up and operation.

(On-screen help disabled in Simplex record mode).

Digital store

Y U V sampling, 8-bits (256 quantisation levels) each.

1024 samples per visible line.

625/525 lines per frame.

20MHz sampling rate.

Environmental: Temperature: 0 - 40°C

Relative Humidity: 5-95% non-condensing.

Power: 85-264 VAC 47-440 Hz. @ 40W.

Dimensions: 2U high, standard 19" rack mount width.

Rack mounting lugs provided.

Overall dimensions 438mm(W) x 88mm(H) x 465mm(D) (excludes power/signal connections).

Weight: 12Kg (includes accessories and packaging).

Montage Plus Order Codes

MTG = Montage

XXX XX(X) – XX (PS)

P = Plus model
S = SuperSpot™

MS = Monochrome Simplex
MD = Monochrome Duplex
CS = Colour Simplex
CD = Colour Duplex

N = NTSC

08 = 8 channels
16 = 16 channels
24 = 24 channels
32 = 32 channels