



LOW COST, LOW MAINTENANCE, EASY TO USE, FOUR-CAMERA DVR

The Eco4 is a low cost, compact digital video multiplex recorder designed to replace the traditional VCR/ multiplexer combination bringing all the benefits of digital security monitoring to the money conscious retailer.

Designed to have the "look and feel" of a traditional CCTV system, the Eco4 offers over 2 months on board recording. The user need never worry about rewinding, changing or replacing tapes as they wear out. When the available hard disk space is full, Eco4 automatically begins recording over the oldest video. Any periods of recorded video can be manually protected to prevent them from being overwritten.

The elimination of tape management issues and VCR maintenance costs means that Eco4 literally provides a fit and forget solution, with quick and easy access to recorded images if and when video needs to be reviewed.

Small retailers and law enforcement agencies can benefit from Eco4's ability to copy incidents to CD-R. All hard disk recordings and images copied to CD provide tamper proof mechanisms

approved for evidence. Playback of images from the CD is via a standard CD-ROM drive. The CD playback software will simply "auto-run" and does not require the installation of software on the users PC.

The option to have a second live monitor display acts as a visible deterrent to the opportunist shoplifter, whilst reassuring staff and customers, and any suspected staff pilfering may be addressed via the Eco 4's covert camera option.

Among the many features also included as standard on Eco4 are live quad display, picture in picture viewing, password protected access, out of hours remote monitoring using free network viewing software, and Dedicated Micros trade mark plug and play set-up with user-friendly interface to keep installation and operator training to a minimum.

For further information, please visit the website: www.dedicatedmicros.com or contact customer services in your region.

FEATURES

- ▶ Low cost entry level digital solution for small business applications
- ▶ Quick and easy to install
- ▶ Internal CD-R (CD Writer)
- ▶ No VCR Tapes or maintenance
- ▶ Space saving design for positioning under a 9"-10" composite monitor
- ▶ Second live deterrent spot monitor output
- ▶ Simultaneous record, playback, background image archiving, remote viewing and playback with no loss of performance
- ▶ Fast access of up to two months recordings in one box
- ▶ High speed recording of up to 30pps (NTSC) 25pps (PAL) Full remote control and observation over local Ethernet, Broadband Internet or dial up Modem connection
- ▶ Full remote control and observation over local Ethernet, Broadband Internet or dial up Modem connection
- ▶ Live quad display and picture in picture viewing
- ▶ Built in video motion detection
- ▶ All recordings have tamper proof mechanisms approved for evidence

SPECIFICATION

LANGUAGES

English, French, German, Spanish, Italian, Chinese, Russian, Czech, Polish, Dutch, Hungarian and Swedish.

CAMERAS

4 camera inputs available.
Loop through BNC connectors provided for each of the camera inputs, with software configured termination.
Cameras auto detected on power up.
Relay trigger option on camera fail.

HIDDEN CAMERAS

Option to view all or selected cameras, without affecting cameras recording.

MONITOR VIEWING

Main monitor:
Full screen, programmable sequence.
Programmable picture-in-picture, quad.
x2 electronic zoom on live images, freeze frame.
Mon A: Composite video BNC connector.

Spot monitor:

Full screen, programmable sequence.
Mon B: Composite video BNC connector.

SCHEDULING

Choice of day, night or weekend offers the ability to automatically:

- Switch alarms and activity on/off
- Alter the record rate for standard, alarm and activity recording
- Activation is via timer.

ACTIVITY DETECTION

Programmable 16 x 8 masking grid for each camera view.
5 levels of sensitivity.

- Trigger light duty relay output 500mA @ 20V max

ALARMS

4 normally open/closed alarm contacts available via back panel.
• Main monitor display of last activity, 2 second dwell per alarmed camera, return to pre-activity display
• Triggers light duty relay output 500mA @ 20V max

SEARCH AND PLAYBACK

- One touch playback.
- Frame advance/rewind, fast picture search and pause keys
- Event list, including event list filter with unique quadrant preview facility
- GOTO time and date
- Playback in quad, picture in picture and full screen

RECORDING

Playback and record to hard disk simultaneously.

Protected images:

The end user can manually configure sections of recorded images to be permanently protected from overwrite. The system can also be configured to protect images automatically when the global alarm is activated.

RECORD RATE

Maximum record rate up to 25pps (PAL) and 30pps (NTSC)

TIMED EXPIRY

- Timed expiry option allows images to be held for a selected number of days
- Images on the disk, which are older than the number of days, selected are not accessed

EVENT COPYING

Event sequences and user defined recorded sequences can be saved to the internal CD-R drive of Eco4. The CD containing the images, the sequences and images themselves are digitally signed for authentication purposes. Playback of images from the CD is via a standard CD ROM drive. The CD playback software will auto-run and does not require the installation of software on the users PC.

* Please check the website for compatible CD-R products.

DIGITAL SIGNATURE

The use of digital signatures makes it possible to detect whether single image or a sequence of images have been tampered with.

ECO4 NETWORKING CAPABILITIES

Standard Ethernet connection provides live and recorded viewing on a networked PC using DM's Network Viewer Software or via web pages using Internet Explorer. Network viewing is independent and does not affect the recording or local operation. The amount of bandwidth the Eco4 uses on the network can be adjusted by the bandwidth limitation option.

Network Viewer software features include:

- Live full and quad screens
- VCR style fast forward and rewind, playback and frame advance/rew
- GOTO time and date and unique quadrant event review
- File export of digitally signed images over the network using Network Viewer software
- Copy single images as JPEG and sequences of images as AVI to save to PC
- Configurable password protection

NETWORK REMOTE SUPPORT

Enables system adjustments to be made remotely over the network. One user may connect to the unit in a password protected admin mode that allows access to menus, as they appear on the unit themselves. System adjustments can then be made remotely over the network, such as changing the record rate, set-up of the activity grid, program presets and more – without the need for a site visit.

COLOUR RESOLUTION

Sampling rate: 13.5 MHz to CCIR 601

Number of pixels: PAL 720h x 512v
NTSC 720h x 448v
16.8 million colours 256 levels of grey, 8-bit luma

COMPRESSION

JPEG format files.
User definable file compression size.

ECO4 DATA

RS-232 serial port.
1x Ethernet RJ-45 10base-T connection.

CD-RW

Built-in slim-line CD Writer for Compact Disk Recordable Media.

TEMPERATURE RANGE

Operating temperature 5 – 40°C (41-104°F).

RELATIVE HUMIDITY

5% - 85% Non-condensing.

DIMENSIONS

89mm (H) x 263mm (W) x 284mm (D).
3 1/2" (H) x 10 3/8" (W) x 11 1/4" (D).

WEIGHT

4.0Kg (8.8lbs) without PSU. 4.8Kg (10.6lbs) with PSU.

POWER SUPPLY

Input Voltage: 100 – 230 50/60 Hz.
Output Voltage: 5, +12, -12

BUILT-IN CD WRITER RANGE

DESCRIPTION	SHORT CODE
4 CHANNEL DVR WITH INTERNAL CD WRITER 25PPS 80GB	ECO4 CD - 80GB
4 CHANNEL DVR WITH INTERNAL CD WRITER 25PPS 160GB	ECO4 CD - 160GB
4 CHANNEL DVR WITH INTERNAL CD WRITER 25PPS 320GB	ECO4 CD - 320GB

Please contact customer services for latest available disk sizes.

PLEASE CHECK THE WEBSITE FOR DETAILS OF COMPATIBLE PRODUCTS AND OTHER LATEST DEVELOPMENTS

FOR FURTHER INFORMATION PLEASE CONTACT

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Dedicated Micros USA

Dedicated Micros Germany

Dedicated Micros France

Dedicated Micros Asia

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www.dedicatedmicros.com

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