

Low cost, low maintenance, easy to use, four-camera DVMR

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 1 month on board recording. The user never needs to 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 the

optional built-in 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 external theft, while adding an increased safety measure for customers and employees. Internal theft issues are addressed 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.dedicatedmicrosus.com or contact customer service in your region.

benefits

- LOW COST ENTRY LEVEL
 DIGITAL SOLUTION FOR SMALL
- DIGITAL SOLUTION FOR SMALL BUSINESS APPLICATIONS
- QUICK AND EASY TO INSTALL
- MODELS WITH INTERNAL CD-R AVAILABLE
- 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 ONE MONTH RECORDING 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

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



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.

Options

Trigger light duty relay output 500mA @ 20V max

ALARMS 4 normally open/closed alarm contacts available via back panel

Options:

Main monitor display of last activity, 2 second dwell

per alarmed camera, return to pre-activity display Trigger light duty relay output 500mA @ 20V max

SEARCH AND PLAYBACK

- VCR style keys offer:
- 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.

Internal hard disk options:

At time of press the maximum internal storage is 160GB. Hard disk sizes are rapidly increasing in capacity. Please contact customer service or DM web site, for latest available disk size configurations for Eco4.

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

FOR FURTHER INFORMATION PLEASE CONTACT

The table below shows the disk size required for low, medium and high image qualities at the equivalent of 48 hour record speeds - 3 pictures per second across all cameras

	IMAGE QUALITY*		
	LOW	MEDIUM	HIGH
	14K	18K	25K
RECORD DURATION		DISK SIZE	
1 day	5GB	6GB	8GB
7 days	27GB	35GB	48GB
31 days	116GB	149GB	208GB
62 days	233GB	299GB	N/A

*Please refer to our record calculator on the DM website for other possible calculations.

RECORD RATE

0

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

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 (or an external CD-R* connected to the SCSI port for models without CD). 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/rewind.
- 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.

Web pages features include:

- Viewing of live images in full screen and quad format.
- Playback (full screen only) including GOTO function.
- Password authentication.
- Web pages are also compatible with Mac and Linux Netscape browsers version 4.7X and 4.8.

NETWORK REMOTE SUPPORT Enables system adjustments to be made remotely over the network. One user may connect to the unit over the network. One user may connect to the during 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.

COLOR RESOLUTION 13.5 MHz to CCIR 601 Sampling rate:

Number of pixels:	NTSC PAL	720h x 448v 720h x 512v

16.8 million colors 256 levels of grey, 8-bit luma.

COMPRESSION JPEG format files

User definable file compression size. Eco4 DATA

RS-232 serial port. SCSI 2 narrow 50 pin high density connector. 1x Ethernet RJ-45 10base-T connection.

CD-R DVMR with CD: Built in slim-line CD-R for Compact Disk Recordable Media

DVMR without CD: Use optional external SCSI CD-R

TEMPERATURE RANGE Operating temperature 41-113 °F (5 – 45°C)

RELATIVE HUMIDITY 5% - 85% Non-condensing

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

DVMR without CD 2 5/8"(H) x 10 3/8" (W) x 11 1/4" (D). 66mm (H) x 263mm (W) x 284mm (D).

WEIGHT DVMR with CD 8.8lbs (4.0Kg) without PSU 10.6lbs (4.8Kg) with PSU

DVMR without CD 7.3lbs (3.3Kg) without PSU 9.0lbs (4.1Kg) with PSU

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

Ordering Information

Description

Built in CD-R Models 4 camera color duplex with CD 30 PPS

Standard Models 4 camera color duplex 30 PPS

Please contact customer service for latest available disk sizes. At the time of press the maximum internal storage is 160GB.

Short code

Eco4 CD

Fco4

PLEASE CHECK THE WEBSITE FOR LATEST DEVELOPMENTS

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www.dedicatedmicrosus.com

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