eco16

LOW COST, LOW MAINTENANCE, EASY TO USE, 16-CAMERA DVR

The Eco16 is a low cost, compact digital video recorder designed to replace the traditional VCR/multiplexer combination bringing all the benefits of digital security monitoring to the cost conscious user.

The Eco16 is designed to have the "look and feel" of a traditional CCTV system, however the user need never worry about rewinding, changing or replacing tapes as they wear out. When the available hard disk space is full, Eco16 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 Eco16 literally provides a fit and forget solution, with quick and easy access to recorded images if and when video needs to be reviewed.

Medium size organizations can benefit from Eco16'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.

Among the many features also included as standard on Eco16 are multiway display, picture in picture viewing, password protected access, a secondary spot monitor, 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 services at (800) 864-7539.

FEATURES

- › **NetVu Connected**
- › **Low cost entry level digital solution for small business applications**
- › **Quick and easy to install**
- › **Integrated CD-R (CD writer)**
- › **No VCR Tapes or maintenance**
- › **Second live deterrent spot monitor output**
- › **Simultaneous record, playback, background image archiving, remote viewing and playback with no loss of performance**
- › **Recording of up to 30pps (NTSC) 25pps (PAL)**
- › **Full remote control and observation over local Ethernet, Broadband Internet or dial up Modem connection**
- › **Multiscreen, quad display and picture in picture viewing**
- › **Built in Activity Detection**
- › **Controlled via NetVu ObserVer over the network**

NetVu CONNECTED

SPECIFICATION

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

CAMERAS
16 camera inputs available.
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 activity on/off
• Alter the record rate for standard, alarm and activity recording
• Activation is via timer

ACTIVITY DETECTION
Programmable 16 x 16 masking grid for each camera view.
5 levels of sensitivity.
Options:
• Trigger light duty relay output 500mA @ 20V max

ALARMS
1 normally open global alarm contact available via back panel.
16 normally open/closed camera specific alarm contacts via back panel.
• Main monitor display of last alarm, 2 second dwell per alarmed camera, return to pre-alarm display
• Trigger 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.

Hard disk sizes are rapidly increasing in capacity. Please contact customer services or DM web site, for latest available disk capacity for Eco16.

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 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 Eco16.
The sequences of images 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.

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

ECO16 NETWORKING CAPABILITIES
Standard Ethernet connection provides live and recorded viewing on a networked PC using DM's NetVu ObserVer or web pages using Internet Explorer. Network viewing is independent and does not affect the recording or local operation. The amount of bandwidth the Eco16 uses on the network can be adjusted by the bandwidth limitation option.

Network ObserVer software features include:
• Live full, quad or multiway format screens
• Fast forward and rewind, playback and frame advance/rew
• GOTO time and date and unique quadrant event review
• File export over the network
• Copy single images as JPEG and sequences of images to save to PC
• Configurable password protection
• Replay server feature removes the need for additional viewing software when video is downloaded to a PC

Web pages features include:
• Viewing of live images in single, quad or multiway format
• Playback in single, quad or multiway format including GOTO function
• Password authentication
• System configuration via web pages

COLOR RESOLUTION
Sampling rate: 13.5 MHz to CCIR 601
Number of pixels: NTSC 704h x 448v
PAL 704h x 512v

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

COMPRESSION
JPEG format files. 2CIF, CIF and QCIF compression.
User definable file compression size.

ECO16 DATA
RS-232 serial port.
485-Bus support for IR interface.
1x Ethernet RJ-45 10/100Base-T connection.

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

TEMPERATURE RANGE
Operating temperature 41-113 °F (5 – 40℃).

RELATIVE HUMIDITY
5% - 85% Non-condensing.

DIMENSIONS
DVR
2 5/8"(H) x 17 5/16" (W) x 16 1/8" (D).
66mm (H) x 440mm (W) x 409mm (D).

WEIGHT
DVR
13lbs (5.9Kg) without PSU.
14.5lbs (6.6Kg) with PSU.

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

BUILT-IN CD WRITER RANGE	
DESCRIPTION	**SHORT CODE**
16 CAMERA COLOR DUPLEX WITH CDR 30PPS 160GB	**ECO16 CD - 160GB**
16 CAMERA COLOR DUPLEX WITH CDR 30PPS 300GB	**ECO16 CD - 300GB**

Please contact customer services for latest available disk capacity.

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

DEDICATED MICROS

www.dedicatedmicrosus.com