

# DATA SHEET



On-board  
Help Videos

Dedicated Micros' new entry-level DVR provides low cost, multi-channel recording with simultaneous playback and viewing. The EcoSense can be accessed and controlled from the state-of-the-art, touch sensitive front panel or via a mouse or keyboard, giving the user full access to all the DVR's features including PTZ control, Alarm and Event Management and Activity Detection.

#### TOUCH SENSITIVE CONTROL PANEL

With a state-of-the-art touch sensitive panel, the EcoSense provides instant access to all its control options via its unique front panel interface.

#### SIMULTANEOUS LIVE VIEWING & RECORDING

The EcoSense offers simultaneous live viewing & recording on all models to allow live monitoring without impacting recorded video.

#### RECORD RATE

True global record rates of up to 240pps (NTSC) at CIF. Assuming all camera channels are populated:

- CIF available at 15pps per camera
- 2CIF available at 7pps per camera
- 4CIF available at 4pps per camera

#### HELP VIDEOS

The EcoSense includes on board help videos for assistance on both User and Configuration features. Accessible from both the local and remote viewer the help videos cover all major operation and configuration topics include: Basic Live and Playback control, PTZ control, alarm configuration, event reviewing and archiving.

#### COLOR CODED MENUS

The EcoSense includes a unique color-coded, soft key menu structure and onscreen GUI. Context sensitive, the menu structure always represents the area of the menu that the user is in, allowing them to quickly select the options and settings they need without having to scroll through menu pages and configuration options. The color coded buttons displayed on the monitor match those on the IR Remote, while control can also be conducted through an attached USB Mouse or USB Keyboard.

#### SEAMLESS NetVu CONNECTED INTEGRATION

NetVu Connected technology fully integrates the EcoSense with other NetVu Connected products including the SD series, DV-IP Server, NetVu Console, HighVu Excel, Pick-a-Point and NetVu Observer to provide the user with a single unified viewing solution. As a NetVu Connected product, the EcoSense can be seamlessly integrated into our award winning Emergency Messaging and Mass Notification System.

## FEATURES

- 4, 8 or 16 Channel models, up to 240pps (@ CIF Resolution) across the unit
- Simultaneous Live viewing and Recording
- On-board help/training videos for both User and Configuration features
- 4CIF/2CIF/CIF record rate at 4/7/15pps per camera
- State of the art touch sensitive front control panel
- Simple graphical interface controlled via USB Mouse or PTZ Keyboard
- DVD writer and USB ports for download of video archive to external storage device
- Composite or VGA main monitor
- Serial PTZ Control including Pelco P & D
- NetVu Connected
- Global MPEG-4 or JPEG record settings
- **TransCoding** - High quality recording and simultaneous video transmission using MPEG-4 or JPEG for remote Live viewing AND Playback.
- Audio In/Out
- Embedded OS on non-volatile flash memory
- NetVu Observer PC client for remote viewing and management; Compatible with a range of operating systems, including Mac, Linux and Sun



# SPECIFICATION

## CAMERAS

4, 8, 16 camera inputs available. Auto detection on power up. Alarm on Camera Fail. Time base correct video inputs for guaranteed recording performance.

## RECORDING

Simultaneous live viewing, playback and recording. Alarmed or manually selected images can be protected from being overwritten.

## MONITOR VIEWING

Main Monitor: Selectable Composite and VGA Outputs  
Spot Monitor: Composite Output

## REAL TIME LIVE MULTISCREEN DISPLAY

The EcoSense displays images with real-time updates in live mode.

## REMOTE VIEWER

Integrated in to the configuration web pages is a remote viewing client that duplicates identically the local on-screen user interface of the unit. Removing the need to install any separate software, this remote viewer can be used on any compatible browser.

## TRANSCODING

High quality recording and simultaneous video transmission using MPEG-4 or JPEG for remote Live viewing AND Playback.

The EcoSense has a unique TransCoding engine which can convert evidential quality recorded JPEG images into an MPEG4 data stream on playback. This is especially useful when playing back recordings over a bandwidth limited network connection.

## E-MAIL NOTIFICATION

Emails can be sent on alarm or other critical events. Notifies the following events on a camera by camera basis:

- Alarm
- Activity
- Camera fail
- Power up

Access to mail server via Ethernet is required for this feature.

## AUDIO

Line in: 1V pk-pk, RCA phono socket  
Line out: 1V pk-pk, RCA phono socket

## EVENT COPYING

Event sequences and user defined recorded sequences can be saved to a CD or DVD via the integrated DVD-writer or to external flash memory or hard drive through the USB port.  
No DVD-writer on 4 Channel unit

## ALARMS AND RELAYS

- 5 normally open/closed tamper proof alarm inputs (4 Channel models)
- 17 Normally open/closed tamper proof alarm inputs (8 and 16 Channel models)
- One global keyswitch can be assigned to operate from any of these inputs and is configurable with entry/exit route timers.
- There are 2 relay outputs configurable to trigger in response to events. (1 relay output on 4 Channel model)

## ACTIVITY DETECTION

Each activity detection will switch the selected camera from normal record profile to alarm record profile. This feature can also; log the event, activate a relay, switch camera, email on activity and remote alarm reporting.

## PTZ

Built-in RS485/Twisted pair protocols provide direct control of the numerous domes including but not limited to the following:

- Dedicated Micros
- Honeywell / VCL Orbiter & Jupiter Microspheres™
- GE CyberDome™ • BBV RS485 StarCard • Bosch/Philips G3
- American Dynamics • Panasonic • Pelco P, Pelco D

## LOCAL CONTROL

EcoSense can be controlled via an attached PTZ keyboard\*, the supplied IR remote or USB mouse or using a USB QWERTY Keyboard.  
\* No PTZ keyboard support on 4 channel unit.

## COMPRESSION

JPEG & MPEG-4 format files.

## RESOLUTION

QCIF, CIF, 2CIF, 4CIF, D1 resolution

## DATA PORTS

Serial Ports: 1x RS485, 1x RS232  
Ethernet: 1x Ethernet RJ-45 10/100 Ethernet connection.  
USB: 3 x USB 2.0 Connector  
Keyboard: 1 x RJ12 (excl. 4 Channel unit)  
IR Remote: 1x sensor at front of unit

## WEIGHTS AND MEASURES

Dimensions (HxWxL): 3.9" x 17.3" x 17.1" (98mm x 440mm x 435mm)  
Weight: 10.8 lbs (4.9kg) (excluding power supply)

## POWER SUPPLY

12v DC External Power supply provided  
Power on LED on Front Panel

## WARRANTY

3 Year Advanced Replacement Warranty including HDD

### Model Numbers\*

Model Number	Description
DM/ECS1/250/04A	4 channel, 120PPS, 5 alarm, 1 relay, PTZ, VGA, 1 USB, 250GB
DM/ECS1/500/08A	8 channel, 120PPS, 17 alarm, 2 relay, PTZ, VGA, DVD Writer, 3 USB, 500GB
DM/ECS1/500/16A	16 channel, 120PPS, 17 alarm, 2 relay, PTZ, VGA, DVD Writer, 3 USB, 500GB
DM/ECS1/1T0/16A	16 channel, 120PPS, 17 alarm, 2 relay, PTZ, VGA, DVD Writer, 3 USB, 1TB
DM/ECS2/1T0/16A	16 channel, 240PPS, 17 alarm, 2 relay, PTZ, VGA, DVD Writer, 3 USB, 1TB
KBC1	Digital Keyboard with joy stick
KBC2	Digital Keyboard
KBC/ACC	Keyboard Extender Kit
DM/RACK-KIT-2U	2U Rack Mount Kit for EcoSense-Black
DM/PCB-RS121	5X9 PIN RS485/422 PTZ Converter

\* SEE OUR WEBSITE FOR FULL MODEL LISTING

PLEASE CHECK THE WEBSITE OR YOUR LOCAL REPRESENTATIVE FOR PRODUCT ORDERING INFORMATION AND OTHER DEVELOPMENTS

[www.dedicatedmicrosinc.com](http://www.dedicatedmicrosinc.com)

Dedicated Micros USA

14434 Albemarle Point Place, Suite 100, Chantilly, Virginia 20151 USA Toll Free : 800 864-7539 Tel: +1 703 904-7738 Fax: +1 703 904-7743

Dedicated Micros Canada

5580 Explorer Drive, Suite 501, Mississauga, Ontario L4W 4Y1 Tel: +1 905 602-6222 Fax: +1 905 602-6221

The manufacturer reserves the right to change the specification without notice. All trademarks are courtesy of registered owners.

The DM logo is a trademark of Dedicated Microcomputers Group Ltd. NetVu Connected is a trademark of the AD group.