

D4

4 camera, easy to install and use standalone digital multiplex recorders

The New D4 is a cost effective entry level digital multiplex recorder, that combines video multiplexing, digital video recording, remote viewing and audio recording in a single easy to use and install package.

The D4 has a price and feature set that now makes digital technology accessible to smaller applications - such as banks, gas stations and other small retail outlets - where a dedicated CCTV system is required.

Designed to have the "look and feel" of a traditional CCTV system, the D4 offers up to one month's on board recording, live quad display, the choice of PPP or ethernet remote viewing, automatic set-up features, and a user-friendly interface to keep installation and operator training to a minimum. Supplied free with the D4, the new IR remote gives front panel control of the unit for operator ease of use.

The D4 provides uninterrupted, high quality digital recording with a digital signature applied to all images. Images can be accessed by the user at the simple touch of one button, or via powerful GOTO and event preview facilities. Digitally signed events can also be copied to an external CD-R or other SCSI archive media.

New remote network support software provides an excellent training and diagnostics tool. D4 together with free DM network viewer software 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 the menus, as they appear on the unit themselves. System adjustments can then be made remotely **without the need for a site visit.**

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



benefits

- COST-EFFECTIVE ENTRY DIGITAL SOLUTION FOR SMALLER APPLICATIONS
- NETWORK REMOTE SUPPORT ALLOWS ONE ADMIN USER TO ACCESS DIRECTLY THE MENU SYSTEM ON THE UNIT, ALLOWING SYSTEM CHANGES TO BE MADE REMOTELY
- IR REMOTE CONTROL OFFERS FRONT PANEL CONTROL INCLUDING PLAYBACK AND VIEW OF EVENT LOG
- TWO REMOTE VIEWING OPTIONS - SUPPORTS PPP AND ETHERNET CONNECTIONS
- LIVE QUAD DISPLAY
- SIMULTANEOUS RECORD, PLAYBACK, BACKGROUND IMAGE ARCHIVING, MULTIPLE USER NETWORK VIEWING AND PLAYBACK WITH NO LOSS OF PERFORMANCE
- DIGITAL SIGNATURE APPLIED TO ALL RECORDED IMAGES
- SINGLE CHANNEL AUDIO RECORDING
- BUILT IN ACTIVITY DETECTION
- FAST ACCESS OF UP TO ONE MONTHS RECORDINGS IN ONE BOX
- NO VCR TAPES OR MAINTENANCE
- QUICK AND EASY TO INSTALL

Specification

LANGUAGES

English, French, German, Spanish, Italian, Chinese, Czech and Russian.

CAMERAS

4 camera inputs available.
Loop through BNC connectors provided for each camera input, 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.

Options:

- Auto copy to external backup device (Zip only)
- Main monitor display of last activity, 2 second dwell per alarmed camera, return to pre-activity display
- Buzz on activity
- Trigger light duty relay output 500mA @ 20V max

ALARMS

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

Options:

- Auto copy to external backup device (Zip only)
- Main monitor display of last alarm, 2 second dwell per alarmed camera, return to pre-alarm display
- Buzz on alarm
- Trigger light duty relay output 500mA @ 20V max

SEARCH AND PLAYBACK

VCR style keys offer:

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

IR REMOTE CONTROL

Provides the operator with front panel control of the unit including:

- The ability to change cameras and camera views
- Search using the GOTO function and review of the event list
- Playback of images from the hard disk

AUDIO

- Records and plays back a single channel of audio along with multiplexed video channel.
- Audio recording stored with images from camera one.
- Audio recorded at 4 KB per second.

Connections:

Mic in: 3.5mm jack socket (requires an electret microphone with a sensitivity of -50dBV or better)

Line in: 47KΩ input impedance, 1V pk-pk, RCA phono socket

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

RECORDING

Playback and record to hard disk simultaneously.

Internal hard disk options:

Standard model offers a single 40GB hard disk at time of press. At time of press the maximum internal storage is 160GB.

Hard disk sizes are rapidly increasing in capacity. Please contact customer services or DM web site, for latest available disk size configurations for D4.

Event partition:

Separate area on disk can be defined for protected storage of alarms and activity.

Area is configured by the user in GB and overwrites itself.

The table below shows the disk size required for VHS, S-VHS and S-VHS+ image qualities at 3 pictures per sec (across all cameras), and audio disabled.

	IMAGE QUALITY*		
	VHS	S-VHS	S-VHS+
RECORD DURATION	14K	18K	25K
	DISK SIZE		
1 day	5GB	6GB	8GB
7 days	27GB	35GB	48GB
31 days	116GB	149GB	N/A

*Approximate image quality comparisons to VHS and S-VHS standards. The D4 can record a single camera up to 25PPS (PAL), 30PPS (NTSC). Please refer to our Digital Recording Calculator or website for other possible calculations

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 BACKUP

Individual images and event sequences can be saved to external CD-R* devices connected to the SCSI port. Playback of images is via PC playback software, supplied with the product and as a free download from the DM website.

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

DIGITAL SIGNATURE

Images have a digital signature applied as they are recorded to hard disk both internally and externally with no loss of record performance. The application of the digital signature makes it possible to detect whether a single image or a sequence of images have been tampered with and also provides the ID of the unit recorded on.

D4 DIAL-UP DEVICES

- Supports PPP (Point to Point Protocol)
- Port allows either direct connection or a dial-up connection using a Hayes AT compatible modem.

D4 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 a standard internet browser. Network viewing is independent and does not affect the recording or local operation. The D4 includes a network bandwidth limitation option which can be configured on the unit itself.

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 thumbnail event review
- File export of digitally signed images over the network using Network Viewer software.
- Copy single images as JPEG and sequence 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.x

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.

COLOR RESOLUTION

Sampling rate: 13.5 MHz to CCIR 601

Number of pixels:

Live images PAL 720h x 512v
NTSC 720h x 448v

Multiplexed/recorded images

PAL 720h x 256v
NTSC 720h x 224v

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

COMPRESSION

JPEG format files.

User definable compression for file sizes from 6 to 45KB's per image.

D4 DATA

2x 485-bus MMJ connectors for 485-bus peripheral devices. RS-232 PPP serial port. SCSI 2 narrow. 1x Ethernet 10base-T, RJ45 twisted pair.

TEMPERATURE RANGE

Operating temperature 5 - 55°C (41-131 °F)

RELATIVE HUMIDITY

5% - 85% Non-condensing.

DIMENSIONS

54mm (H) x 355mm (W) x 400mm (D).
2 1/8" (H) x 14" (W) x 15 3/4" (D).

WEIGHT

4.8kg (10.56lbs) without PSU
5.6kg (12.3lbs) with PSU

POWER SUPPLY

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

Ordering Information

Description

4 camera color duplex, PPP, ethernet

Short code

D4 DX4C

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

PLEASE CHECK THE WEBSITE FOR DETAILS OF COMPATIBLE SCSI CD-R PRODUCTS AND OTHER LATEST DEVELOPMENTS

FOR FURTHER INFORMATION PLEASE CONTACT



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