Mobile Four Channel Digital Video Recorder For Transportation Applications

The EDSR400M is the first full-featured digital video recorder designed specifically for use in mobile applications. It features a superior image quality, easy to use VCR-styles controls and a rugged construction that will withstand high levels of vibration and humidity.

The EDSR400M is ideal for use in bused, cars, police cruisers, or any application requiring a rugged digital recorder. Video and audio can be recorded at speeds up to 60/50 fields per second (NTSC/PAL), and can be replayed instantly when the touch of a button. Highly efficient compression technology and superior resolution of recorded images make the EDSR400M stand out from the competition as the best choice in mobile surveillance.

▶ Features

- Easy-to-use control panel with common VCR and VCR-style functions
- Shuttle/Jog dial for picture-by-picture or fast/slow viewing
- No tapes to manage, clean or replace
- Instant retrieval of stored video
- On-screen setup menu and system timer
- Ethernet TCP/IP connectivity for remote viewing and controlling
- Pre-alarm and Post-alarm process
- Built-in M-JPEG compression/decompression with configurable quality

- Programmable for various time-lapse speeds
- 2.5" IDE type hard disk drives for storage with hot-swap tray
- RS232 and RS485 for remote control.
- Variable recording speeds up to 60/50 fields per second for NTSC/PAL
- Alarm-activated recording
- Includes CompactFlash reader (card not included)
- Audio recording capabilities

▶ Advantages

NO MORE VIDEO TAPES TO CHANGE AND MANAGE, SAVES YOUR MONEY AND TIME

The EDSR400M, brings an end to VCR tape management and maintenance problems. No images are lost due to faulty or worn out tapes. Unlike conventional VCRs, there are no tapes to replace or store. The EDSR400M is economical without compromising features or durability.

ONE PRODUCT TO INSTALL AND MAINTAIN

With the EDSR400M, images are directly recorded onto the hard disk inside the unit. Just plug in camera and the unit automatically starts recording.

FAMILIAR VCR-STYLE FRONT PANEL OPERATION

The EDSR400M offers familiar VCR-style control keys. User-friendly, step-by-step menus simplify the installation and operator training process.

DATA CAN BE STORED IN CompactFlash CARD

Cards inserted in the CompactFlash card slot make it easier to back up recordings and transfer images to a PC.

▶ Wide Variety of Applications for Transportation Surveillance

Mass Transit   Police Car   Taxi Cab   School Bus

▶ Time Lapse Mode Recording Time

Lower	: 15kB	Standard	: 27kB
Low	: 19kB	High	: 31kB
Basic	: 23kB	Superior	: 35kB

NTSC

Recording Speed (IPS)	PICTURE QUALITY(KB)					
	LOWER	LOW	BASIC	STANDARD	HIGH	SUPERIOR
	15	19	23	27	31	35
60	24.7	19.5	16.1	13.7	11.9	10.6
30	49.4	39	32.2	27.4	23.9	21.2
20	74.1	58.5	48.3	41.2	35.8	31.7
15	98.8	78	64.4	54.9	47.8	42.3
10	148.1	117	96.6	82.3	71.7	63.5
5	296.3	233.9	193.2	164.6	143.4	127
1	1481.5	1169.6	966.2	823	716.8	634.9
0.5	2963	2339.2	1932.4	1646.1	1433.7	1269.8
0.3	4938.3	3898.6	3220.6	2743.5	2389.5	2116.4
0.2	7407.4	5848	4830.9	4115.2	3584.2	3174.6

(Estimations based on 80 GB HDD)

PAL
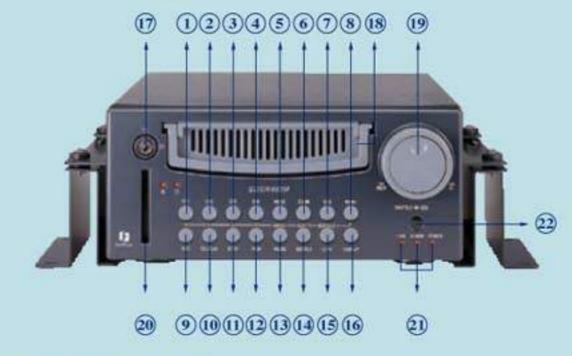
Recording Speed (IPS)	PICTURE QUALITY(KB)					
	LOWER	LOW	BASIC	STANDARD	HIGH	SUPERIOR
	15	19	23	27	31	35
50	29.6	23.4	19.3	16.5	14.3	12.7
25	59.3	46.8	38.6	32.9	28.7	25.4
10	148.1	117	96.6	82.3	71.7	63.5
5	296.3	233.9	193.2	164.6	143.4	127
2	740.7	584.8	483.1	411.5	358.4	317.5
1	1481.5	1169.6	966.2	823	716.8	634.9
0.5	2963	2339.2	1932.4	1646.1	1433.7	1269.8
0.4	3703.7	2924	2415.5	2057.6	1792.1	1587.3
0.2	7407.4	5848	4830.9	4115.2	3584.2	3174.6
0.1	14814.8	11695.9	9661.8	8230.5	7168.5	6349.2

Reference: 24H=1 day, 168H=1 week, 720H=1 month, 8760H=1 year   (Estimations based on 80 GB HDD)

▶ Major Operating Controls

Front Panel Keypads

① CHANNEL 1
② CHANNEL 2
③ CHANNEL 3
④ CHANNEL 4
⑤ MODE
⑥ ZOOM
⑦ SEQ
⑧ MENU
⑨ REC
⑩ REV. PLAY
⑪ STOP

⑫ PLAY
⑬ PAUSE
⑭ SEARCH
⑮ COPY
⑯ DISPLAY
⑰ LOCK (HDD KEY)
⑱ HARD DISK TRAY
⑲ SHUTTLE AND JOG DIAL
⑳ Compact Flash CARD SLOT
㉑ LEDs
㉒ IR REMOTE RECEIVER

Back Panel Keypads

① MAIN POWER PLUG
② AUDIO IN AND OUT
③ MAIN MONITOR
④ CALL MONITOR
⑤ VIDEO IN AND OUT
⑥ ALARM IN AND OUT
⑦ LAN CONNECTOR
⑧ RS232 CONNECTOR
⑨ RS485 CONNECTOR
⑩ FAN

EDSR400M

Mobile Four Channel Digital Video Recorder

► Specifications

Model No:	EDSR400M (Mobile Four Channel Digital Video Recorder)
Video Input	4 camera inputs (BNC),1Vp-p/75ohm
Video Output	1 BNC video out (1Vp-p/75 ohm) for Main Monitor
	1 BNC video out (1Vp-p/75 ohm) for CALL Monitor
	4 video out (1Vp-p/75ohm)for looping
Video Compression	M-JPEG
Recording Resolution	720x484 (NTSC); 720x576 (PAL)
CompactFlash Memory	Yes, Built-in Compact Flash card slot
Alarm Input	4 alarm inputs
Alarm Output	1 alarm output
Video Display	Full, PIP, Quad and 2x2 zoom for Live and Playback
Video Loss Detection	Yes
Ethernet	RJ45 connectors for network communications
Event Log	Yes
Hard Disk Storage	2.5" IDE type, Hot- swappable
Recording Mode	Continuous, Time-lapse recording, Schedule or Event Recording
Recording Rate	Up to 60/50 fields per second for NTSC/PAL
Playback Rate	Up to 60/50 fields per second for NTSC/PAL
Playback Search	By Date/Time or Event/Segment
Setup	On screen display setup
User Interface	Menu Driven
User Input Device	Front Panel Keypad
Timer	Built-in real time clock
Watch Dog Timer	Yes
RS-232	9-pin female connector
RS485	RJ45 Connector
Dimension	320.8mm (L) x 273mm (W) x 100mm (H)
Operating Temperature	0°C ~ +50°C
Power Consumption	60W
Power Source	DC12~24V
Operating Shock	8G,11ms(20 per five seconds maximum)
Operating Vibration	5~20 Hz 0.037 inches(double amplitude), 5~500Hz 0.75G(0 to peak)

- Design and specifications are subject to change without prior notice
- Based on United States Federal Regulation: It's required to post warning sign if an audio devices is used in conjunction with this machine.
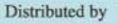
► Ordering Information

EDSR400M-N: Mobile Four Channel Digital Video Recorder, DC12~24V

EDSR400M-P: Mobile Four Channel Digital Video Recorder, DC12~24V

Distributed by

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