

## Mobile Single Channel Digital Video Recorder

The EDSR100M 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-style controls and a rugged construction that will withstand high levels of vibration and humidity.



The EDSR100M is ideal for use in buses, 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 EDSR100M 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
- 3.5" 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 EDSR100M, 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 EDSR100M is economical without compromising features or durability.

#### ONE PRODUCT TO INSTALL AND MAINTAIN

With the EDSR100M, 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 EDSR100M 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 : 15 kB Basic : 25 kB High : 35 kB  
Low : 20 kB Standard : 30 kB Superior : 40 kB

### NTSC

Recording Speed (Hour)	Recording Rate (Field/Sec)	PICTURE QUALITY					
		LOWER	LOW	BASIC	STANDARD	HIGH	SUPERIOR
2	60	24H	18H	14H	12H	10H	9H
6	15	98H	74H	59H	49H	42H	37H
12	8.571	172H	129H	103H	86H	74H	64H
24	4.615	321H	240H	192H	160H	137H	120H
48	2.461	7H	463H	370H	308H	264H	231H
72	1.622	913H	685H	548H	456H	391H	342H
96	1.224	1210H	907H	726H	605H	518H	453H
168	0.706	2098H	1573H	1259H	1049H	899H	786H
480	0.249	5949H	4462H	3569H	2974H	2549H	2231H
720	0.166	8924H	6693H	5354H	4462H	3824H	3346H
960	0.125	11851H	8888H	7111H	5925H	5079H	4444H

(Estimations based on 80GB HDD)

### PAL

Recording Speed (Hour)	Recording Rate (Field/Sec)	PICTURE QUALITY					
		LOWER	LOW	BASIC	STANDARD	HIGH	SUPERIOR
3	50	29H	22H	17H	14H	12H	11H
6	16.667	88H	66H	53H	44H	38H	33H
12	10	148H	111H	88H	74H	63H	55H
24	5.556	266H	200H	160H	133H	114H	100H
48	2.941	503H	377H	302H	251H	215H	188H
72	2	740H	555H	444H	370H	317H	277H
96	1.515	977H	733H	586H	488H	419H	366H
168	0.877	1689H	1266H	1013H	844H	724H	633H
480	0.311	4763H	3572H	2858H	2381H	2041H	1786H
720	0.207	7156H	5367H	4294H	3578H	3067H	2683H
960	0.156	9646H	7122H	5698H	4748H	4070H	3561H

Reference: 24H=1 day, 168H=1 week, 720H=1 month, 8760H=1 year

(Estimations based on 80GB HDD)

## Front Panel Keypads




- 1 ←
- 2 →
- 3 ↑
- 4 ↓
- 5 ENTER
- 6 BUZZER
- 7 LOCK
- 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 REMOTE CONTROL

## Back Panel Connections



- 1 POWER IN
- 2 AUDIO IN AND OUT
- 3 MUX MAIN MONITOR
- 4 MONITOR
- 5 VIDEO IN AND OUT
- 6 VIDEO LOPPING
- 7 ALARM INPUT AND OUTPUT
- 8 RS232 CONNECTOR
- 9 RS485 CONNECTOR
- 10 FAN

## Specifications

<b>Model No:</b>	<b>EDSR100M</b> (Mobile Single Channel Digital Video Recorder)
	
<b>Video Input</b>	1 camera input (BNC), 1Vp-p/75ohm
<b>Video Output</b>	1 BNC video out (1Vp-p/75 ohm) for Main Monitor • 1 video out (1Vp-p/75ohm) for looping
<b>Video Compression</b>	M-JPEG
<b>Video Resolution</b>	720x484 (NTSC); 720x576 (PAL)
<b>CompactFlash Memory</b>	Yes, Built-in CompactFlash card slot
<b>Alarm Input</b>	1 alarm input
<b>Alarm Output</b>	1 alarm output
<b>Video Display</b>	Full for Live and playback
<b>Video Loss Detection</b>	Yes
<b>Watch Dog Timer</b>	Yes
<b>Event Log</b>	Yes
<b>Hard Disk Storage</b>	2.5" IDE type, Hot-swappable
<b>Recording Mode</b>	Continuous, Time-lapse recording, Schedule or Event Recording
<b>Recording Rate</b>	Up to 60/50 fields per second for NTSC/PAL
<b>Playback Rate</b>	Up to 60/50 fields per second for NTSC/PAL
<b>Playback Search</b>	By Date/Time or Event/Segment
<b>Setup</b>	On screen display setup
<b>User Interface</b>	Menu driven
<b>User Input Device</b>	Front panel keypad
<b>Timer</b>	Built-in real time clock
<b>Operating Temperature</b>	0°C~+50°C
<b>RS-232</b>	9-pin female connector
<b>RS485</b>	RJ45 Connector
<b>Dimension</b>	320.8mm (L) x 273mm (W) x 100mm (H)
<b>Power Consumption</b>	60W
<b>Power Source</b>	DC12~24V
<b>Operating Shock</b>	8G, 11ms(20 per five seconds maximum)
<b>Operating Vibration</b>	5~20Hz, 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

**EDSR100M-N:** Mobile Single Channel Digital Video Recorder, NTSC, DC12~24V  
**EDSR100M-P:** Mobile Single Channel Digital Video Recorder, PAL, DC12~24V

Distributed by

## EverFocus Electronics Corp.

### Head Office:

12F, No.79 Sec. 1, Shin-Tai Wu Road, Hsi-Chi, Taipei, Taiwan  
 Tel: 886-2-2698-2334 Fax: 886-2-2698-2380  
<http://www.everfocus.com.tw>  
 E-mail: [marketing@everfocus.com.tw](mailto:marketing@everfocus.com.tw)

### USA Office:

2445 Huntington Drive, San Marino, CA 91108, U.S.A.  
 Tel: 1-626-844-8888 Fax: 1-626-844-8838  
 Toll Free: 1-888-383-6287 or 1-888-EV-FOCUS  
<http://www.everfocus.com>  
 E-mail: [sales@everfocus.com](mailto:sales@everfocus.com)

### Japan Office:

1809 WBG Maribu East 18F, 2-6 Nakase, Mihama-ku, Chiba city  
 261-7118, Japan  
 Tel: 81-43-212-8188 Fax: 81-43-297-0081  
<http://www.everfocus.com>  
 E-mail: [salesjapan@everfocus.com](mailto:salesjapan@everfocus.com)

### Beijing Office:

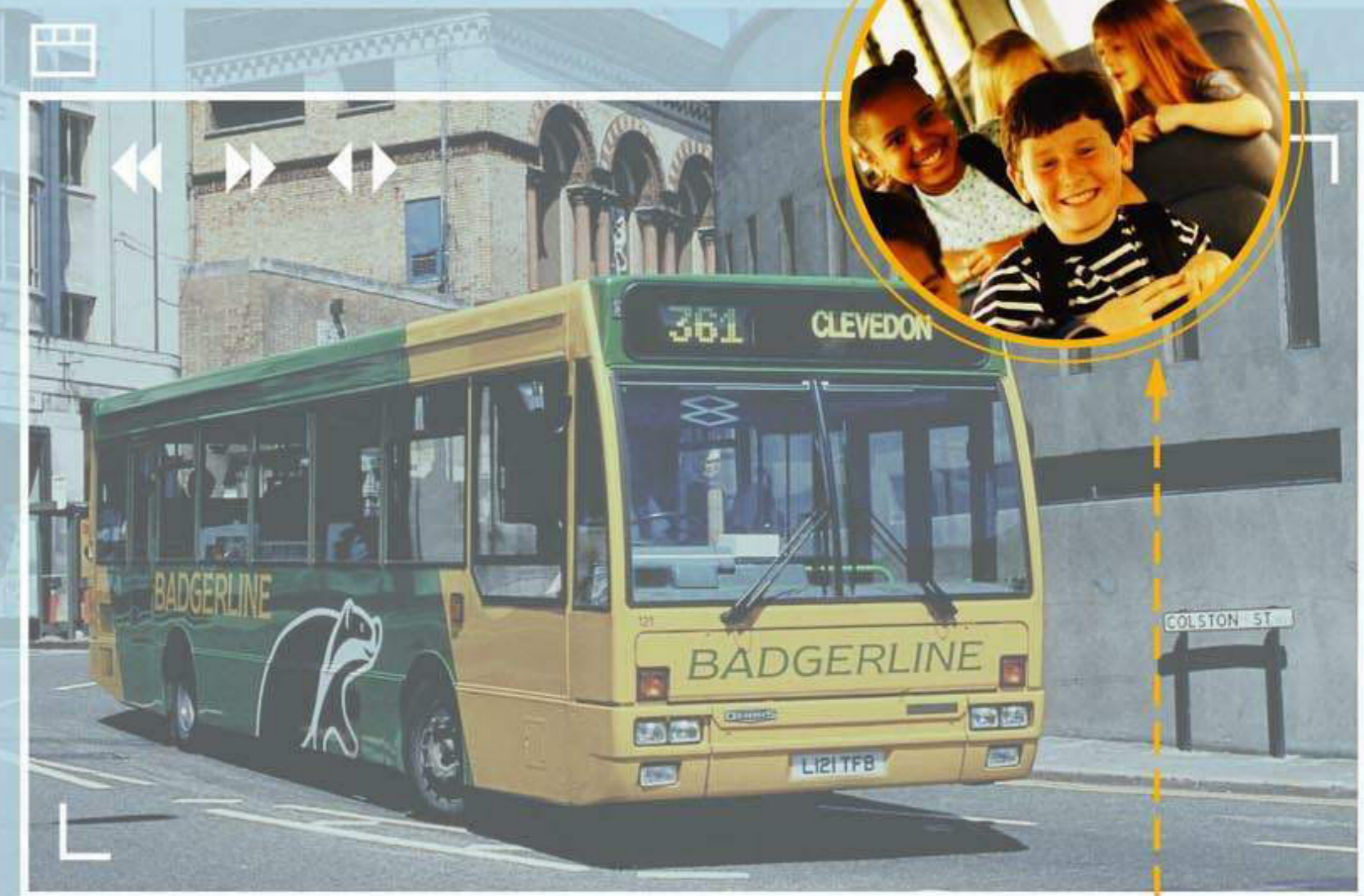
Room 609, Technology Trade Building, Shangdi, Haidian, Beijing, China  
 Tel: 86-10-62973336/37/38/39 Fax: 86-10-62971423  
<http://www.everfocus.com.tw>  
 E-mail: [marketing@everfocus.com.cn](mailto:marketing@everfocus.com.cn)

### European Office:

Albert-Einstein-Strasse 1, D-46446 Emmerich, Germany  
 Tel: 49-2822-9394-0 Fax: 49-2822-939495  
<http://www.everfocus.de>  
 E-mail: [info@everfocus.de](mailto:info@everfocus.de)

# EDSR100M

## Mobile Single Channel Digital Video Recorder



 EverFocus®

