DX-TL800E120 DIGITAL RECORDER

Advanced digital recording and playback functions

Vertical storage
- DX-TL800E120 can be set lengthwise in a narrow space

Emergency recording
- During power on, when emergency terminal is grounded, emergency recording will start overrriding all other settings

Pre-alarm function
- Images are continuously stored so that incident recording can be started in advance of the alarm trigger

Various search
- Date & time search, alarm list search, skip search, index search and camera filtering search

Image file watermarking
- Image files carry a "watermark" that identifies it as an original image

Audio recording
- 1ch audio recording possible

Password lock
- All set-up parameters can be locked to prevent accidental or intentional tampering

RS232C
- This port can be used for remote control via DX-VS1 (optional), in addition to configuring DX-TL800E120 locally

Recording capacity
The below table shows the approximate recording time using the built in 120GB disk. The camera operation setting is set to the same interval for all cameras (without audio recording)

D:Days H:Hours

Picture Grade	SUPER	HIGH	STANDARD	BASIC	LONG
25.0 Picture/Sec	1D 3H	1D 12H	2D 12H	3D 12H	7D 18H
12.5 Picture/Sec	2D 7H	3D	5D	7D	15D 16H
8.33 Picture/Sec	3D 12H	4D 15H	7D 12H	10D 15H	23D 12H
6.25 Picture/Sec	4D 15H	6D 4H	10D	14D	31D
5.0 Picture/Sec	5D 20H	7D 16H	12D 12H	17D 16H	39D 7H
4.17 Picture/Sec	7D	9D 6H	15D	21D 6H	47D
2.5 Picture/Sec	11D 16H	15D 10H	25D 4H	35D 10H	78D 15H
1.0 Picture/Sec	29D 6H	38D 16H	63D	88D 15H	196D 15H
Number of Pictures	2,566,000	3,383,000	5,483,000	7,700,000	17,034,000

The DX-TL800E120 digital security video recorder is fully compliant with the very stringent performance requirements of the latest European EMC test standard EN50130-4.

SPECIFICATIONS

Item		Description
Main Recording Medium		120GB fixed magnetic recording device (HDD) Possible to maximum 240GB (120GB×2)
External Recording Medium		CompactFlash™ Card slot for copying data SanDisk CompactFlash™ Card recommendable
Colour system		PAL system
Signal Compression System		Wavelet: Sampling 13.5 MHz Compression unit: Field
Number of Picture Elements Processed		684×288 pixels
Video Terminal	Input	9-channel input BNC: 1.0Vp-p 75Ω
	Output	9-channel through output BNC: 1.0Vp-p 75Ω (during AC power supply) Monitor output 2 BNC: 1.0Vp-p 75Ω S terminal: Y 1.0Vp-p 75Ω/C 0.3Vp-p 75Ω
Audio Terminal		Input: 3.5ø Microphone-67dBs 600Ω RCA plug-8dBs 50KΩ Output: RCA plug on front and rear-8dBs 1KΩ
Horizontal Resolution		More than 450 lines (Super and High picture grade)
Recording Interval		Can be set for each camera with function to estimate recording possible time
Alarm Recording		Recording time: 2sec, 5sec, 10sec, 15sec, 30sec, 45sec, 1min, 2 min, 5min, 10min, 20 min, 30min, 60 min and contact input
Pre-alarm Recording		Pre-alarm time period has 3 settings, long, middle and short

Item	Description
Emergency Recording	Emergency input terminal (rear)
Power Failure Recovery Recording	Auto-re-start of unit after power failure
Used Capacity Recording	Displays percentage of hard disk space used
Menu Language	English, German, French, Spanish and Russian
Motion Detection Function	16(H)×12(V) detection area setting, 5 steps detection sensitivity setting, recoding start dot number setting
Timer Adjusting Function	Time adjusting input (rear terminal)
Retrieval	Date & Time search, index search, skip search, alarm list search, camera filtering search
Multiplexer Function	Split display: 4/9 split display Sequential display: 1/4 display
Remote Access Interface	RS-232C (D-SUB 9pins)
Power Supply	AC100-240V 50/60Hz
Power Consumption	0.25A (240V)
Operational Conditions	Temperature: 5˚C-40˚C Humidity: 30%-80% Altitude: Max 2000m
Dimensions (W×D×H)	300×350×88mm
Weight	7kg
Accessories	AC power code (UK and Continental plug) Instruction manual (English) Quick Guide (English, German, French, Spanish and Russian)

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NOTICE
New publication, effective July.2002.
Specifications subject to change without notice.

MITSUBISHI ELECTRIC
Changes for the Better

ISO 9001
JQA-0521

High-performance, efficient, reliable monitoring in a compact body

DX-TL800E120
DIGITAL RECORDER

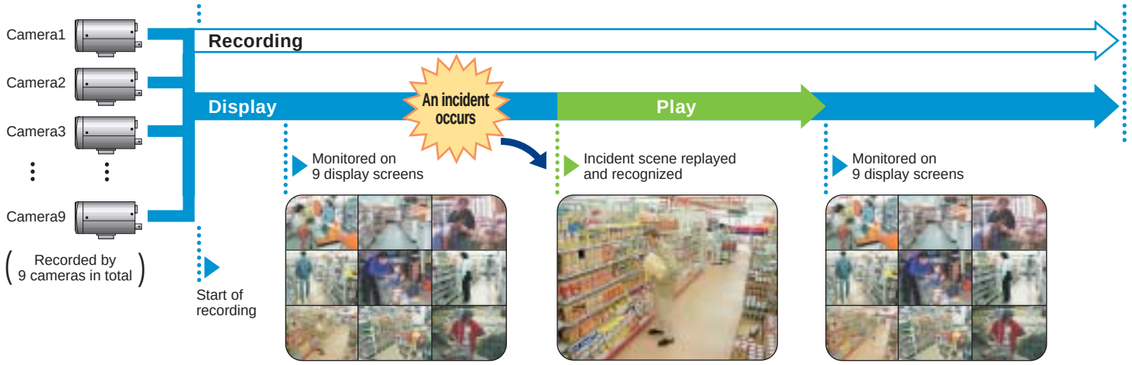
Built-in large capacity HDD capable of further extended recording. Full of various state-of-the-art specs in addition to the clear images only digital technology can bring.

DX-TL800E120

(door open)

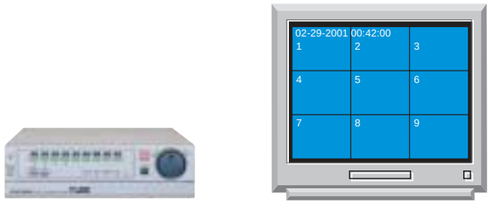
Built-in full duplex 9-channel multiplexer

- The monitor screen can be switched between sequential displays including full screen, quad or 9 split-screen modes
- Live pictures from all cameras are recorded continuously while simultaneously playing back any desired camera picture regardless of the monitor screen display. This makes it easy to check questionable scenes by playing them back while recording continues
- Pictures from a particular camera can be displayed and not recorded in instances where recording of the camera picture is legally prohibited

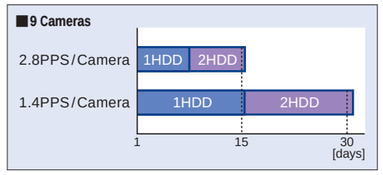


Compact yet large capacity hard disc

The DX-TL800E120 is a very compact unit yet it has a large internal hard disk capacity of 120Gb enabling many hours of recording. A further 120Gb hard disk can also be added if increased capacity is required. Both the WAVELET image compression and motion detection systems also provide greater efficiency to maximise potential hard drive recording time.

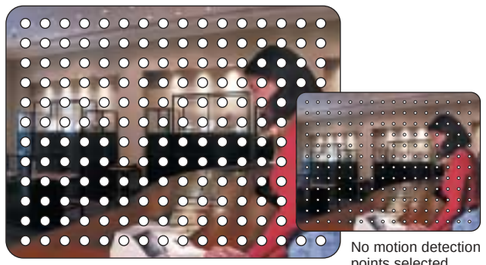


shows the comparative size of the compact unit



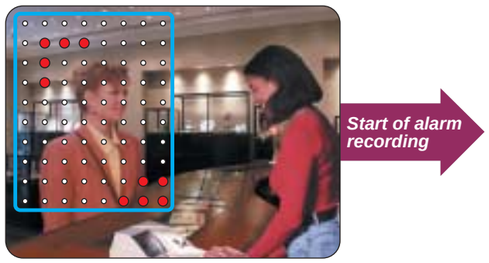
Built-in Motion Detection

Only moving objects are detected from the camera picture in the recorder and alarm recording is triggered. High-fidelity detection is achieved by the detection area of 192 dots for efficient, prolonged recording by detecting only the pictures that need to be recorded. Because external sensors are eliminated, you can construct a high-performance monitoring system at low cost. Detection conditions (such as detection area, sensitivity and minimal size of detection) can be set for each camera.



No motion detection points selected

Detection area setting screen
Each point can be set to ○ for on and ◦ for off

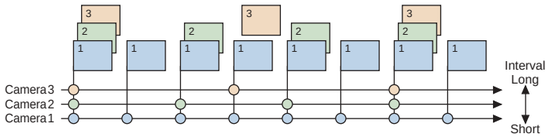


Mitsubishi's unique motion-detection preview screen makes it easy to select the motion sensitivity to suit the situation.

Recording interval setting for each camera

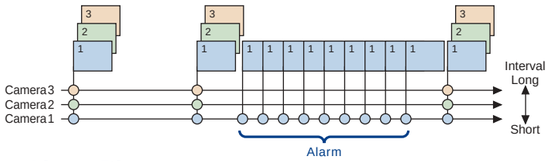
● Setting up the recording interval of each camera

The recording interval and recording picture quality can be set for each camera as desired in accordance with the purposes of monitoring (maximum number of frames: 25 pps). Shorter recording intervals can be selected for locations where numerous people visit, and a longer recording interval for locations where there are few visitors.



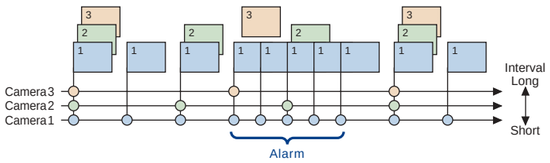
● Different recording intervals for alarm recording

The recording interval of the camera that has detected an unusual situation can be switched to a shorter recording interval when an alarm occurs. The alarms from multiple cameras can also be processed simultaneously.



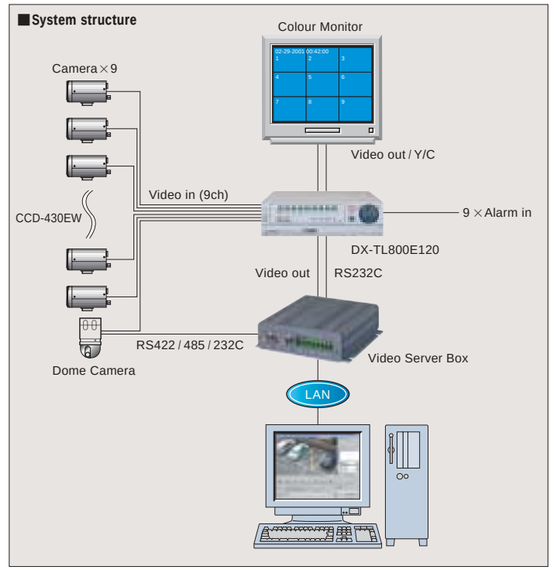
● Alarm Plus

The recording interval of the camera that has detected an unusual situation can be switched to a shorter recording interval when an alarm occurs. While recording of the alarm camera is in progress, other cameras keep recording at the preset recording intervals.



Remote monitoring using Video Server Box DX-VS1 (Optional)

When connected to a Mitsubishi Digital Video Recorder, live and recorded images can be viewed at a remote location. This can be done using Internet Explorer on a PC connected to the same network. All functions on the front panel can also be from a personal computer at a remote location. Up to 100 people can be simultaneously connected via the Internet and Intranet. For example, multiple stores can be centrally monitored from headquarters.



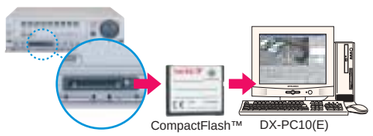
Covert camera

The picture of a specified camera can be recorded without the image being displayed on the monitor screen.

Easy data export

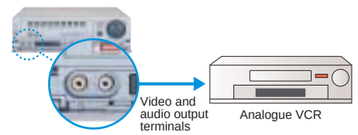
■CompactFlash™

The image data recorded in the digital recorder can be downloaded to a CompactFlash™ card and then played back by a personal computer. (Use of the CompactFlash™ made by Sandisk is recommended.)



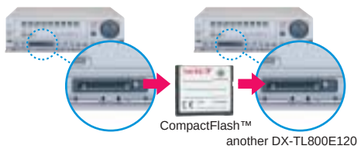
■Analogue output terminal on the front panel for VCR dubbing

The pictures recorded by a digital recorder can be dubbed into an analogue VCR using the video and audio output terminals on the front panel.



■CompactFlash™ slot

The contents such as menu setups can also be recorded in a CompactFlash™ card so the data can be exchanged. Multiple digital recorders can then be used under the same setup conditions, with no need to set the digital recorders from the beginning.



■ DX-PC10(E) (Option)

The recorded data of the CompactFlash™ card can be easily played back and printed using a personal computer using PC playback software DX-PC10(E). Pictures can be searched according to recorded date and time.