



MITSUBISHI ELECTRIC

Changes for the Better



16ch DIGITAL RECORDER

Model

DX-TL5000E



■ New Developed Features

1. JPEG2000

The DX-TL5000E uses the latest compression method, JPEG2000 for improved video quality and compression efficiency. JPEG2000 is more stable with moving images than previous MPEG methods used and can also provide a more accurate estimation of maximum recording time.

2. Triplex Recording

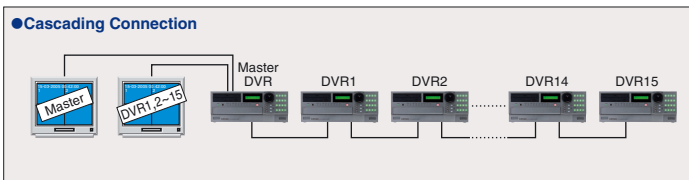
The DX-TL5000E features triplex recording, allowing for the playback of data and display of live images whilst recording current data.

3. Dual Multiplexer Output

Two multiplexer outputs make it possible to display both different live cameras with multi-screen formats and different recorded playback images onto two monitor displays.

4. Cascading Connection

If connecting two or more DX-TL5000Es, one unit can be set up as a master connected to the monitor outputs, with the other DX-TL5000Es just connected to the master but with live images and sound being displayed on the monitors.



Key Features

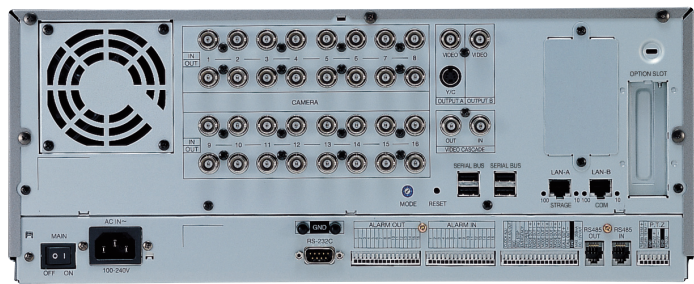
- Multiple HDD options
- Triplex operation
- Recording rates of up to 200pps
- Viewing rates of up to 800pps
- JPEG2000 compression
- Covert Camera function
- Dual Multiplexer Outputs
- Copy options including in-built DVD/CD Drive, Serial Bus & SCSI interface
- Multi-channel audio recording
- Networking capability for remote viewing and archiving
- Motion Detection
- Advanced search functions
- Graphical User Interface menus including help function
- Individual recording settings
- Cascading connection

DX-TL5000E 16ch DIGITAL RECORDER

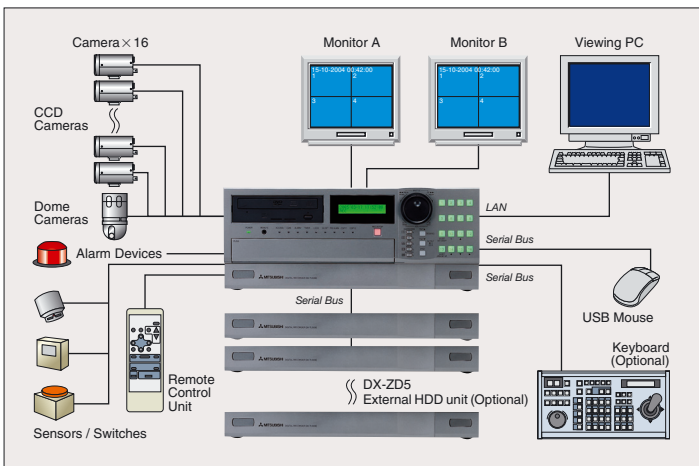
Front Panel



Rear Panel



System Structure



Recording capacity

The below table shows the approximate recording time with a 500GB HDD. The camera operation setting is set to the same interval for all cameras.

Picture Grade	D:Days H:Hours					
	Super	Fine	High	Standard	Basic	Long
200 picture/sec.	0d16h	0d19h	0d23h	1d06h	1d17h	2d18h
100 picture/sec.	1d09h	1d15h	1d23h	2d12h	3d11h	5d13h
66.7 picture/sec.	2d01h	2d10h	2d23h	3d18h	5d05h	8d08h
50 picture/sec.	2d18h	3d06h	3d23h	5d01h	6d23h	11d03h
40 picture/sec.	3d11h	4d02h	4d23h	6d07h	8d17h	13d22h
33.3 picture/sec.	4d02h	4d20h	5d22h	7d12h	10d12h	16d16h
25 picture/sec.	5d11h	6d11h	7d21h	10d00h	14d00h	22d05h
16 picture/sec.	8d15h	10d04h	12d09h	15d19h	21d17h	34d20h
13 picture/sec.	10d15h	12d12h	15d06h	19d10h	26d18h	42d20h
10 picture/sec.	13d19h	16d06h	19d19h	25d06h	35d18h	55d18h
8 picture/sec.	17d07h	20d09h	24d18h	31d14h	43d11h	69d16h
4 picture/sec.	34d14h	40d18h	49d13h	63d04h	86d23h	139d09h
2 picture/sec.	69d04h	81d12h	99d03h	126d08h	173d23h	278d19h
1 picture/sec.	138d08h	163d00h	198d06h	252d16h	347d23h	557d14h
0.5 picture/sec.	276d17h	326d01h	396d12h	505d09h	695d23h	1115d04h
0.25 picture/sec.	553d11h	652d02h	793d00h	1010d19h	1391d22h	2230d08h
0.125 picture/sec.	1106d22h	1304d04h	1586d00h	2021d14h	2783d20h	4460d16h
Total Picture Number	11,952,000	14,082,000	17,126,000	21,830,000	30,064,000	48,172,000

* The picture number of Frame record setting becomes double against Field record setting.

Specifications

Item	Description
Main Recording Medium	2 built-in large capacity HDDs. An extra HDD can be added internally if required.
Internal Recording Medium	DVD drive (DVD-R/RW, CD-R/RW)
External Recording Medium	Extended recording HDD NAS drive Serial Bus I/F HDD SCSI I/F HDD (SCSI I/F Optional) Backup/Copying : Serial Bus (SCSI I/F Optional)
Colour System	PAL system
Signal Compression System	JPEG2000
Number of Picture Elements Processed	720x288 pixels : Field recording 720x576 pixels : Frame recording
Display rate	800 field/sec./display (50 field/ch)
Recording rate	200 field/sec. (50 field/ch)
Video Terminal	Input 16-channel input BNC : 1.0Vp-p 75 Through 16-channel through output BNC : 1.0Vp-p 75 (during AC power supply) Output A BNC 1-channel : 1.0Vp-p 75 S terminal 1-channel : Y 1.0Vp-p 75 / C 0.3Vp-p 75 RCA output 1-channel : 1.0Vp-p 75 Output B BNC 1-channel : 1.0Vp-p 75
Audio Recording System	PCM
Audio Terminal (Optional)	Input 4-channel RCA-Pin plug : 308mV(rms), 50k (Optional) Output RCA-Pin plug on rear : 308mV(rms), 1k (Optional)
Recording Interval	Can be set for each camera with function to estimate possible recording time
Alarm Recording	Recording time : 2sec, 5sec, 10sec, 15sec, 30sec, 45sec, 1min, 2min, 5min, 10min, 20min, 30min, 60min and contact
Pre-alarm Recording	Can be set from 1 sec. up to 1 hour (LPA)
Emergency Recording	Emergency input terminal (rear)
Power Failure Recovery Recording	Auto-re-start of unit after power failure
HDD Usage	Displays percentage of hard disk space used
Menu	GUI menu
Menu Language	English, German, French, Spanish, Italian, and Russian
Motion Detection Function	22(H)x23(V) detection area setting, 5 steps detection sensitivity setting, recording start dot number setting
Clock Adjusting Function	Clock adjusting input (rear terminal)

Item	Description
Retrieval	Date & Time search, Alarm List search, Bookmark search, Motion search
Multiplexer Function	Split display : 4, 9, 10, 13, 16 split display x 2 Sequential display : 1, 4, 9 display x 2
Interface	Input 16-channel ALARM IN 1-channel REC IN 1-channel REC STOP IN 1-channel EMERGENCY 1-channel CLOCK ADJ Output 4-channel MODE OUT 16-channel ALARM OUT 1-channel CALL OUT 1-channel CLOCK ADJ OUT DC12V OUT RS232C 1-port for TL5000 control RS422/RS232C 1-port for Camera control RS485 1-port for Cascade control input, 1-port for output Remote Access 1-jack for wired remote control unit connection Serial Bus 2-port of USB jack on front, 4-port on rear LAN 2-port of 10/100Base-T/TX LAN-A for External Recording, LAN-B for communication
Network	Live viewing, Live viewing & Playback and search by TCP/IP and WEB Image data downloading, PTZ Control, Access to multiple DVRs by TCP/IP Alarm notification by E-mail and TCP/IP
Power Supply	AC100-240V 50/60Hz
Power Consumption	0.3A (240V)
Operational Conditions	Temperature : 5°C-40°C Humidity : 30%-80% Altitude : Max 2000m
Dimensions (W x D x H)	425 x 390 x 175mm
Weight	14.0kg (capacity:500GB)
Accessories	AC power code (UK and Continental plug), USB mouse, Instruction manual (English), Quick Guide (English, German, French, Spanish, Italian, Dutch and Russian)
Optional Accessories	Disk Drive Box (DX-ZD5UE); Keyboard (DX-KB5); Audio Card (DX-SC5); XGA Card (DX-GC5); Rack Mount (DX-RM5); Rack Mount for Disk Drive Box (DX-RM5ZD).

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For more information about our digital recorders, please see the website at:
www.mitsubishielectric.co.uk/vis

NOTICE
New publication, effective March. 2005.
Specifications subject to change without notice.