

DX-TL4509U

**MITSUBISHI
ELECTRIC**
SECURITY PRODUCTS

9-Channel Digital Video Recorder
With JPEG2000 Video Compression

DX-TL4509U



POWERFUL FEATURES, EASY TO USE AND SUPERB IMAGE QUALITY

Key Features

- JPEG2000 video compression for superb video quality
- 540 PPS live/120 PPS record
- Built-in integrated CD/DVD drive for easy copy
- Auto set up for automated programming
- Multiple HDD options
- Dual multiplexer outputs for simultaneous live/record on two monitors
- Advanced motion detection up to 418 detection dots
- PTZ of dome cameras
- Various search options
- Built-in network for remote view and programming

Introducing the DX-TL4509U, Mitsubishi's latest 9 video input DVR based on JPEG2000 compression. Sharing many features with Mitsubishi's ultra high-end DX-TL5000U, the DX-TL4509U is smaller in size, yet offers an array of advanced features critical in today's security market. Utilizing JPEG2000 video compression, the DX-TL4509U provides real time monitoring with an amazing 540 pictures per second and high density recording up to 120 pictures per second. This provides superb video in both live and playback modes.

Image copy is simplified with built in CD/DVD writer. With the included USB mouse, set up is easy with an uncomplicated GUI interface. Other features include dual programmable monitor outputs for powerful simultaneous camera double split screen monitoring, alarm event partition and PTZ of dome cameras. With multiple built-in storage capacity options, you have various HDD choices depending on your recording needs. Options include USB enabled HDD expansion units for additional terabytes of storage and security controller keyboard. Backed with an industry leading 5 year warranty on DVRs, the DX-TL4509U is the clear choice for solid, reliable 24/7 digital surveillance.



Panel Open

**DIAMOND™
DIGITAL**

SPECIFICATIONS

Recording Capacity 250GB

Picture Grade	Recording PPS (Camera total)																Rec Picture
	120	80	60	48	32	30	16	13	10	8	4	2	1	0.5	0.25	0.125	
L6-30KB	0d18h	1d3h	1d12h	1d22h	2d21h	3d1h	5d18h	7d2h	9d5h	11d13h	23d2h	46d5h	92d11h	184d22h	369d21h	739d19h	7,989,000
L5-25KB	0d22h	1d9h	1d20h	2d7h	3d11h	3d16h	6d22h	8d13h	11d2h	13d21h	27d18h	55d13h	111d2h	222d5h	444d10h	888d20h	9,599,000
L4-20KB	1d3h	1d17h	2d7h	2d21h	4d8h	4d15h	8d16h	10d16h	13d21h	17d9h	34d18h	69d12h	139d1h	278d2h	556d5h	1112d10h	12,013,000
L3-15KB	1d13h	2d7h	3d2h	3d20h	5d19h	6d4h	11d14h	14d6h	18d13h	23d4h	46d9h	92d19h	185d15h	371d6h	742d12h	1485d1h	16,038,000
L2-10KB	2d7h	3d11h	4d15h	5d19h	8d17h	9d7h	17d10h	21d10h	27d21h	34d20h	69d16h	139d9h	278d19h	557d14h	1115d4h	2230d8h	24,087,000
L1-4KB	5d19h	8d17h	11d15h	14d13h	21d19h	23d6h	43d15h	53d16h	69d19h	87d6h	174d12h	349d	698d	1396d	2792d1h	5584d2h	60,307,000

The above table displays the estimated recordable time (when recording on a 250 GB HDD) and shows the total number of recordable pictures of all the cameras which are set for recording (without audio recording).

Recording time - d:day h:hour

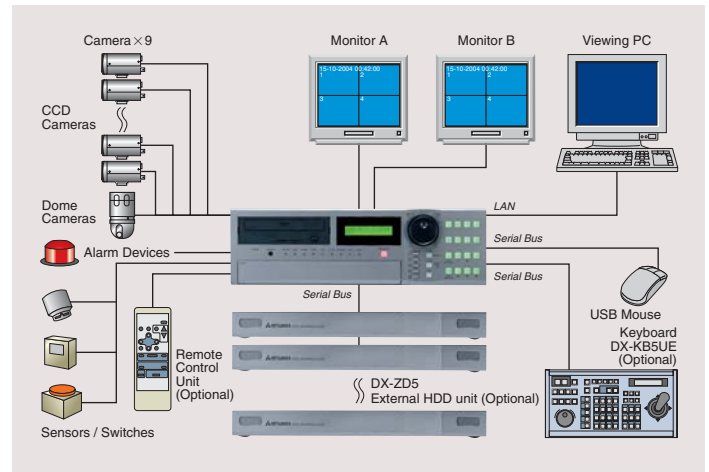
Item	Description
Main Recording Medium	Built-in 250 GB HDD; additional HDD can be installed
Archiving	Internal DVD/CD drive (DVD-R/RW, CD-R/RW)
	External Serial Bus I/F HDD (optional DX-ZD5UE); USB memory (copy only)
Color System	NTSC
Signal Compression System	JPEG2000
Number of Picture Elements Processed	720 x 240 pixels : field recording
	720 x 480 pixels : frame recording
Display Rate	540 fields/sec.
Recording Rate	120 fields/sec. at 720 x 240 pixels
Video Terminal	Input 9-channel input; BNC: 1.0Vp-p 75Ω
	Through Output 9-channel loop through output; BNC: 1.0Vp-p 75Ω (with AC power supply)
	Output A BNC 1-channel: 1.0Vp-p 75Ω S terminal 1-channel : Y 1.0Vp-p 75Ω/ C 0.286Vp-p 75Ω RCA output 1-channel (on front): 1.0Vp-p 75Ω
	Output B BNC 1-channel : 1.0Vp-p 75Ω
Audio Recording System	PCM
Audio Terminal	Input 1-channel RCA-Pin plug; 308mV(rms), 50kΩ
	Output 1-channel RCA-Pin plug (on front and rear): 308mV(rms), 1kΩ
Recording Interval	Separately selectable for each camera with estimate of maximum 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-restart of unit after power failure
HDD Usage	Percentage display of hard disk space used
User Interface	GUI menu
Menu Language	English, French, and Spanish
Motion Detection Function	22(H) x 19(V) detection area, 5 sensitivity settings, dot number setting to trigger recording
Clock Adjusting Function	Clock adjusting input (rear terminal)
Retrieval	Date & Time search, Alarm List search, Bookmark search, Motion search

Input And Output Terminals



Item	Description
Multiplexer Function	Split display : 4, 9 split display (output A/B) Sequential display : 1, 4 display (output A/B) Covert camera display Alarm display
Interface	Inputs 9-channel ALARM IN 1-channel REC IN 1-channel REC STOP IN 1-channel EMERGENCY 1-channel CLOCK ADJ
	Outputs 4-channel MODE/RELAY OUT 9-channel ALARM OUT 1-channel CALL OUT 1-channel CLOCK ADJ OUT DC12V OUT
Remote Functions	RS232C 1-port for DX-TL4509 control
	RS422/RS232C/ 1-port for camera control
	RS485 1-port for DX-KB5UE
	Remote Access 1-jack for wired remote control unit connection
Power Supply	Serial Bus 2 x USB jack on front panel, 2 x USB on rear
	LAN 1 port for 10/100 Base-T/TX for data comms
Remote Functions	Web Live viewing, Playback and Search PC Software Live viewing, Playback (access to multiple DVRs), Search, Image data downloading, PTZ control, Alarm notification, Configuration, Recorder control, Remote mode output control
Power Supply	AC100-240V 50/60Hz
Power Consumption	0.9A (120V)
Operational Conditions	Temperature: 5°C-40°C; Humidity: 30%-80%; Altitude: 2000m max.
Dimensions (W x D x H)	16.7 x 13.9 x 5" (425 x 353 x 128 mm)
Weight	20 lbs. (9.1 kg) without HDD
Accessories	AC power cord, Installer's manual (English), User's manual (English)

System Structure



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