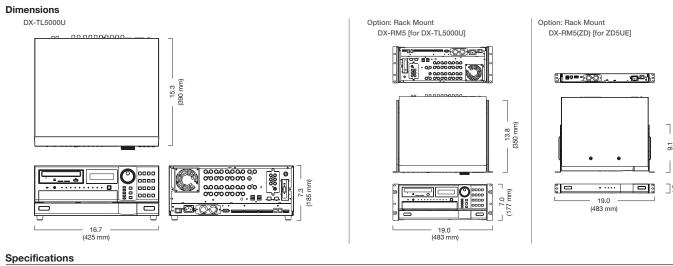
### 16ch DIGITAL RECORDER DX-TL5000U



ltem		Description	Item		Description
Main Recording Medium		Two large capacity HDDs built in; additional 1 HDD can be added internally to increase on board storage.	Retrieval		Date & Time search, Alarm List search, Bookmark search, Motion search
Archiving Medium	Internal External	DVD/CD drive (DVD-R/RW, CD-R/RW) Serial Bus I/F HDD NAS SCSI I/F HDD (SCSI I/F Optional)	Multiplexer Funct	ion	Split display : 4, 9, 10, 13, 16 split display (output A/B) Sequential display : 1, 4, 9 display (output A/B) Covert camera display Alarm display
		USB memory (Copy only)	Interface	Input	16-channel ALARM IN
Color System		NTSC system			1-channel REC IN 1-channel REC STOP IN
Signal Compression System	n	JPEG2000			1-channel EMERGENCY
Number of Picture Elements Processed		720 $\times$ 240 pixels : Field recording 720 $\times$ 480 pixels : Frame recording	-	Output	1-channel CLOCK ADJ 4-channel MODE OUT
Display rate		960 field/sec./display (60 field/ch)			16-channel ALARM OUT 1-channel CALL OUT
Recording rate		240 field/sec. (60 field/ch)			1-channel CLOCK ADJ OUT
Video Terminal	Input	16-channel input BNC : 1.0Vp-p 75Ω	-		DC12V OUT
		16-channel through output BNC : 1.0Vp-p 75 $\Omega$	-	RS232C	1-port for TL5000 control
	Output		-	RS422/RS232C	1-port for Camera control
	Output A	BNC 1-channel : $1.0Vp-p 75\Omega$ S terminal 1-channel : Y 1.0Vp-p $75\Omega / C$ 0.3Vp-p $75\Omega$ RCA output 1-channel : $1.0Vp-p 75\Omega$	-	Remote Access	1-port for Cascade control input, 1-port for output 1-jack for wired remote control unit connection
	Output P	BNC 1-channel : 1.0Vp-p 75Ω	-	Serial Bus	2-port of USB jack on front, 4-port on rear
Audio Recording System	Output B	PCM	-	LAN	2-port of 10/100Base-T/TX LAN-A for External Recording,
Audio Terminal	Input	4-channel RCA-Pin plug : 308mV(rms), 50k $\Omega$			LAN-B for communication
	Output	RCA-Pin plug on rear : 308mV(rms), $1k\Omega$	Network	WEB	Live viewing, Playback, Search
Recording Interval		Can be set for each camera with function to estimate possible recording time		PC Software (DX-PC55)	Live viewing, Playback (Access to multiple DVRs), Search, Image data downloading, PTZ Control, Alarm notification,
Alarm Recording		Recording time : 2sec, 5sec, 10sec, 15sec, 30sec, 45sec, 1min, 2min, 5min, 10min, 20min, 30min, 60min and contact	Power Supply		Configuration, Recorder control, Remote relay output control AC100-240V 50/60Hz
Pre-alarm Recording		Can be set from 1 sec. up to 1 hour (LPA)	Power Consumpt	ion	1.0-0.45A (100-240V)
Emergency Recording		Emergency input terminal (rear)	Operational Cond	itions	Temperature : 5°C-40°C
Power Failure Recovery Reco	ording	Auto-re-start of unit after power failure			Humidity : 30%- 80% Altitude : Max 2000m
HDD Usage		Displays percentage of hard disk space used	Dimensions (W ×	D ~ H)	16.7 × 15.3 × 7.3" (425 × 390 × 185mm)
Menu		GUI menu	Weight	D × H)	31.3lbs (14.2kg) (capacity: 500GB)
Menu Language		English, French, and Spanish	Accessories		AC power code, USB mouse, Installer's manual, User's manual
Motion Detection Function		22(H) $\times$ 19(V) detection area setting, 5 steps detection sensitivity setting, recording start dot number setting	Warranty		Two-year parts and labor. Also includes two-year Express Replacement Assistance (ERA) program that guarantees free replacement recorder
Clock Adjusting Function		Clock adjusting input (rear terminal)			shipped overnight for next business day delivery when and where availa

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Recording capacity (field recording without audio)

The below table s	hows the	approxir	nate reco	ording tim	e with a t	500GB HI	DD. The c	amera o	peration s	etting is a	set to the	same int	erval for	all camer	as.	d: days	s, h: hours
Number of pictures /sec.	240	120	80	60	48	32	30	16	13	10	8	4	2	1	0.5	0.25	0.125
Super	14h	1d6h	1d22h	2d14h	3d6h	4d22h	5d6h	9d20h	12d4h	15d18h	19d18h	39d14h	79d4h	158d6h	316d14h	633d6h	1266d14h
Fine	18h	1d12h	2d6h	3d	3d20h	5d18h	6d2h	11d12h	14d4h	18d10h	23d2h	46d4h	92d10h	184d22h	369d20h	739d18h	1479d14h
High	22h	1d20h	2d18h	3d16h	4d14h	6d22h	7d8h	13d20h	17d2h	22d4h	27d18h	55d12h	111d2h	222d4h	444d10h	888d20h	1777d16h
Standard	1d2h	2d6h	3d10h	4d14h	5d18h	8d16h	9d6h	17d8h	21d8h	27d18h	34d18h	69d12h	139d	278d2h	556d4h	1112d10h	2224d20h
Basic	1d12h	3d2h	4d14h	6d4h	7d16h	11d14h	12d8h	23d4h	28d12h	37d2h	46d8h	92d18h	185d14h	371d6h	742d12h	1485d	2970d2h
Long	2d6h	4d14h	6d22h	9d6h	11d14h	17d10h	18d14h	34d20h	42d20h	55d18h	69d16h	139d8h	278d18h	557d14h	1115d4h	2230d8h	4460d16h
											*The pictur	e number of	Frame recor	d setting bec	omes half ag	ainst above ı	record setting.

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Mitsubishi Digital Electronics America, Inc. Imaging Products Division 9351 Jeronimo Road • Irvine, CA 92618 888-307-0388 • ipdinfo@mdea.com www.mitsubishi-imaging.com

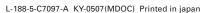
Technical Support: Toll Free: 888-307-0309 Email: tsupport@mdea.com

Canada: Mitsubishi Electric Sales Canada Inc. Information Technologies Group Markham, Ontario 905-475-7728 www.MitsubishiElectric.ca





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Changes for the Better

# MITSUBISHI ELECTRIC

### SECURITY PRODUCTS

# **16ch DIGITAL RECORDER**

ncreasing demand for professional-grade digital video surveillance systems, tsubishi Electric has developed the DX-TL5000U Digital Recorder. Designed to offer the best in digital video security recording, the DX-TL5000U is a high-performance, high-spec solution providing outstanding expandability and a wide range of features, plus user-friendly setup and simple operation.



### Versatile Monitoring

The DX-TL5000U offers superb versatility with support for numerous display options on one or more monitors.

### 16ch multiplexer

Thanks to its 16-channel multiplexer, the DX-TL5000U can be hooked up to 16 cameras. You can choose between 5 different split-screen displays - handling 16, 13, 10, 9 or 4 video feeds simultaneously - and a full-screen display. Even when using the 16-way splitscreen display, the DX-TL5000U can handle 60 pictures a second from each camera. This ensures a naturallooking live video display with smooth motion.

ect up to 16 security 

= Front-panel buttons to elect display forma

Live monitoring capability NTSC Format 60pps x 16 cameras = 960pps

### **Triplex function**



There's no need to interrupt operations just to check recorded footage. Triplex capability means that you can display live video feeds as well as previously recorded footage at the same time as the DX-TL5000U is recording. You can even archive material simultaneously. Pick any segment of the split-screen display for playback and use the jog-shuttle control to navigate.

### **Dual multiplexer output**

The DX-TL5000U's dual multiplexer allows you to use two monitors, thus creating a powerful camera-monitoring setup with double split-screen capability. Live video and playback footage can be output separately to the two monitors. Alternatively, the output from a single camera can be displayed on both monitors but with a time shift - useful if you need to check many hours of video!



### **Versatile Recording**

enhanced reliability.

### **High-definition recording**

You can pick from 6 levels of recording quality. What appears as smooth video footage on playback is in fact recorded as a series of still pictures using JPEG2000 technology. The high efficiency of wavelet-based image compression ensures both high picture quality and a vast recording capacity: 1 terabyte of data can be stored using the 750-gigabyte\* internal HD capacity of the DX-TL5000U, which can also record up to 4 audio channels in PCM format.

Video recording capability								
NTSC Format	15pps x 16 cameras = 240pps [60pps							

### Alarm recording



### **Emergency recording**

Emergency recording is activated by a device, such as a panic button, attached to a terminal on the rear panel. Whatever timed or programmed settings are in effect, emergency recording takes priority, cycling through all designated camera views automatically and recording at the highest quality setting so as to capture every detail.

### Long pre-alarm recording (LPA)

If long pre-alarm recording has been selected, emergency recording can start as early as 60 minutes prior to the emergency signal. This exclusive feature can provide ample information for later examination and analysis.

### Alarm partition.



data will still be safe. Reserved partition preserves data

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### Choose from a wide range of recording options to handle various emergency events with

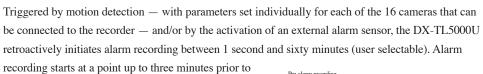
\*Standard 500GB HDD plus one optional 250GB HDD





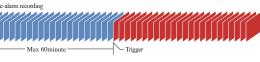
JPEG2000 technology imp

x 4 cameras]



nal sensor can trigger alarm record







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The DX-TL5000U is

The vital data produced by alarm or emergency recording is stored in a separate, reserved partition on the hard disk. This protects the video footage from the danger of being overwritten. To increase reliability even further, another hard disk can be used to mirror data: should one of the disks fail, the

## **Simple Setup**

Setting up the DX-TL5000U is easy thanks to the setup wizard and on-screen menus, plus USB mouse support

#### **GUI** menus

For both initial setup (using the automated wizard) and daily operations, the on-screen menus and USB mouse make everything so easy that you can forget the User Manual. A mouse-click on the screen will bring up the menus and, if you want, simple operating instructions. What's more, the transparency of the on-screen menus can be adjusted so as not to obscure real-time monitoring. You can also use the keys on the front panel for menu selection.



On-screen menus and mouse suppor

### **Recording setup**

03

Setup

Simple

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Wherever possible, the setup process has been automated: if you specify the recording interval and period, recording quality will be set automatically. But you are always free to fine-tune the settings - using the timer function, for example, to make more detailed recordings for specific periods of the day, or on certain days of the week. This can be combined with motion detection. As well as more effective surveillance, this flexibility ensures more efficient use of hard disk space.

Set recording parameters separately for each camera

### Setup profile management.

The more you fine-tune the settings on the DX-TL5000U, the better it can serve your needs. But it also becomes more important for you to store those settings. Fortunately, it's very easy to save the complete setup profile using external media, such as a USB memory stick or CD-R disc. You can thus restore setup information at any time, but also copy profiles to other units as a quick means of cloning and customizing.



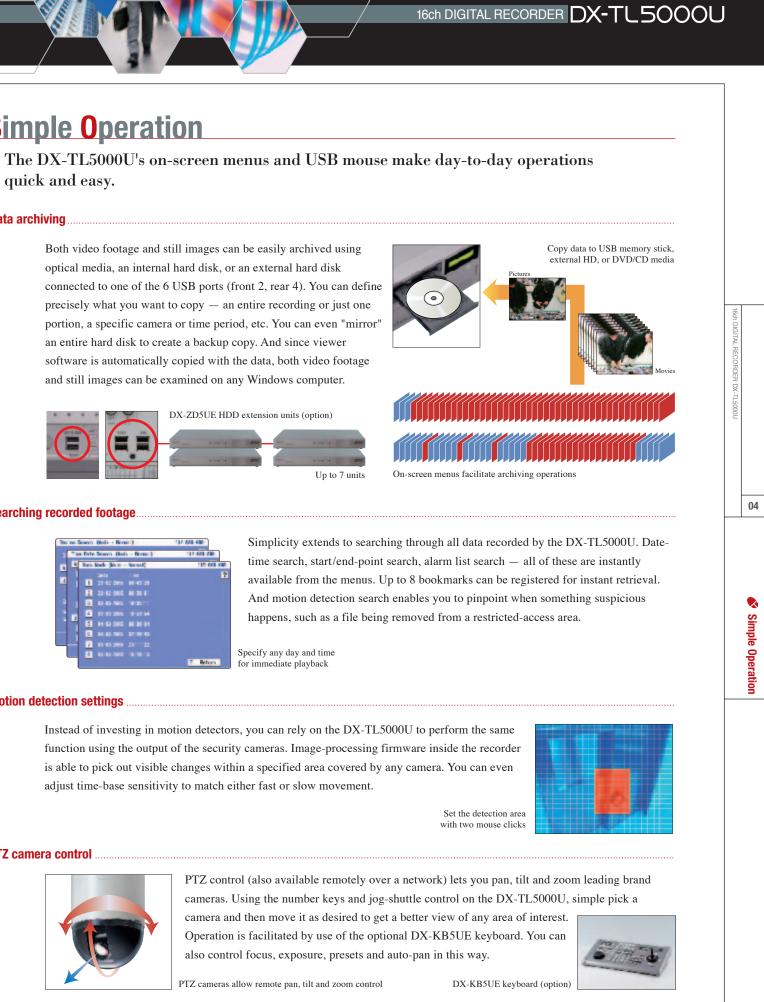


Transfer setup profiles between recorders

### **Simple Operation**

quick and easy.

#### Data archiving



### Searching recorded footage

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### Motion detection settings

#### **PTZ camera control**



### **Network Connectivity**

Monitoring and control of the DX-TL5000U is possible over a network (LAN & Internet).

### **Remote access**

The DX-TL5000U can be remotely accessed, operated and configured via a LAN or the Internet using either the builtin web server or custom software. You can thus use a laptop computer to view live camera output, for playback, or to search through recorded footage. Network connectivity adds an extra dimension to your entire security operations.

#### Web server capability

The web server (with adjustable transmission speed to suit network bandwidth and traffic conditions) allows live monitoring, playback, searching through recorded footage, and also partial control of recorder settings. You can choose full-screen or split-screen displays, and select specific cameras. Also, e-mail alerts can be sent out automatically to ensure rapid response in an emergency.

### Software (DX-PC55)

Offering an alternative and very powerful means of remote access, DX-PC55 software enables network-mediated configuration of virtually all DX-TL5000U settings as well as full control of its

operation. This software offers many options, such as adjusting recording quality and recording rate, changing programmed recording times, SSL encoding and power on/off.



### **Superb Expandability**

The DX-TL5000U offers outstanding expandability for enhanced recording and operating options.

### **High-capacity storage**

The DX-TL5000U can be equipped with up to 3 internal hard disks, while the optional DX-ZD5UE HDD extension units can house 2 hard disks each. This means that a configuration with three 250GB internal HDDs and

the maximum of 7 DX-ZD5UE units, each with two 250GB HDDs, would provide a total of 4.25 terabytes - sufficient to store high-quality, full-rate video footage for extended periods of emergency recording. The theoretical maximum is no less than 34 terabytes - enough



DX-ZD5UE HDD extension units (option)

#### Cascade connections.

If you want to cover a very large facility from one location without requiring a large investment, you can make use of cascade connections between as many as 16 DX-TL5000U units. This setup enables the centralized monitoring of up to 256 security cameras using a single master unit.

storage for even the most extensive security system.

### PCI expansion slot, Enhanced connectivity.

The rear panel features all of the connectors for the cameras, as well as for external sensors. You can use the PCI expansion slot to install a SCSI card and up to 6 external hard disks for additional storage, or attach an optional video card for XGA output to a standard computer display.



DX-GC5 Graphic Card (option)

### At Work

demands reliably and efficiently.

### Office buildings.

Anyone involved with the management of large office buildings will benefit from the high storage capacity and expandability of the DX-TL5000U. Multiple units can be linked via cascade connections for the monitoring and control of up to 256 cameras from a single location. Security cameras can be installed on each floor to cover corridors, lifts, doors and stairwells, with motion detection and other parameters customized for each camera.

#### **Banks**

For any financial institution, security issues demand extra priority and the DX-TL5000U is more than capable of meeting the challenge. As well as offering customizable motion detection for each camera, it can be wired to a variety of external sensors and panic buttons, ensuring rapid response to alarms and emergencies. Especially important is its ability to store high-quality video footage - with up to 60 minutes of pre-alarm recording - on a reserved hard disk partition for later analysis.

### **Distribution centers**

Increasingly distribution centers, whose original mission is to supply a network of stores, are also having to serve as nerve centers for centralized monitoring and management The DX-TL5000U, however, can help keep costs down with such features as setup profile cloning, motion detection, and PTZ camera control. 24/7 remote surveillance can be carried out efficiently by one person using the recorder's built-in web server or DX-PC55 software.

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