

QUICK START GUIDE



DX-TL4509E



DX-TL4516E



DX-TL5000E

Quick SETUP GUIDE FOR DX-TL5000E

Contents

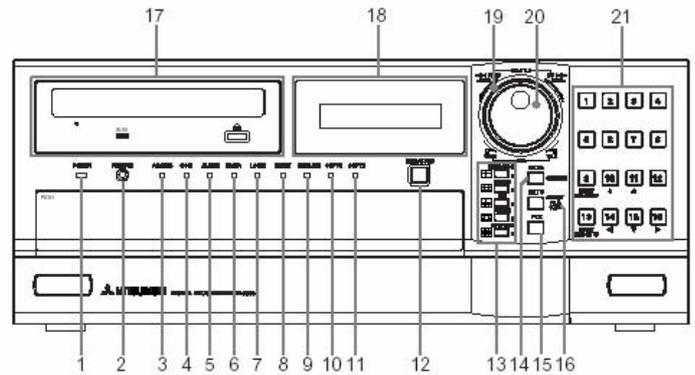
Introduction.....	2
DX-TL5000E Front View:	2
DX-TL5000E Back View:.....	2
Jog/Shuttle Control:.....	2
Before Powering the Unit ON:	3
Various Recording Functions	4
1 st Time Power Up & SETUP Wizard:	6
SETUP WIZARD Screens	6
Start Recording.....	11
Menu structure	11
MOTION ALARM RECORDING	12
Changing Motion Area.....	13
Operation Example Motion Detection	15
Programming Motion Detection	15
Testing Programming.....	20
Operation Example Timer Recording	22
Pattern B Recording	24
Motion B Settings	26
TIMER Programming.....	27
Connecting 2 DX-TL5000 together (CASCADE)	31
Programming Cascade Contention.....	31
Network Configuration LAN B.....	33
Default IP settings	33
Remote connections and Network Bandwidth limits.....	35
PTZ CAMERAS	36
EXTERNAL Storage Features.....	38
Password Settings.....	39
Disk management password.....	41
Multiplex Setting Overview	43
Multiplexer Setting	44
Alarm Display Setting	44
Covert Camera Setting.....	45
Menu Data (Saving Settings).....	46
Save Settings	46
Load Settings	47
Firmware Upgrade.....	48
DX-TL5000E Optional Parts	49

Introduction

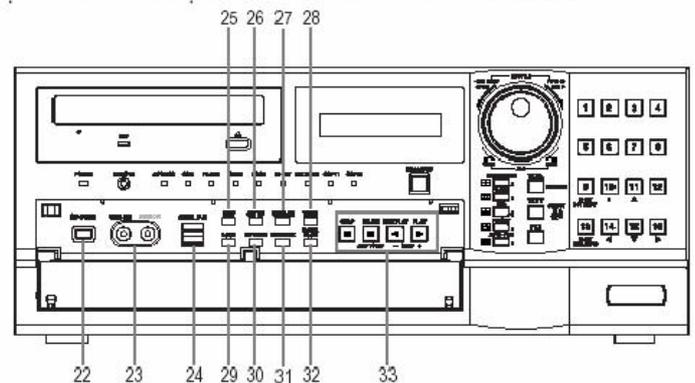
The following procedure will allow you to quickly configure the DX-TL5000E. Please read this document before you turn the unit on or make any changes. [Additional information is found in the Installer's Manual](#)

DX-TL5000E Front View:

- | | | |
|-----------------------|-----------------------|---------------------|
| 1. Power Indicator | 2. Remote Jack | 3. Access Indicator |
| 4. Com Indicator | 5. Alarm Indicator | 6. Timer |
| 7. Lock Indicator | 8. Motion Det. Ind. | 9. Pre-Alarm Ind. |
| 10. Copy Ind. | 11. Copy 2 Ind. | 12. REC/STOP |
| 13. SPLIT Screen | 14. Sequence Button | 15. PTZ Button |
| 16. Output A/B Button | 17. Disk Loading Slot | 18. LCD Display |
| 19. Shuttle Ring | 20. Jog Dial Ring | 21. Camera 1-16 |

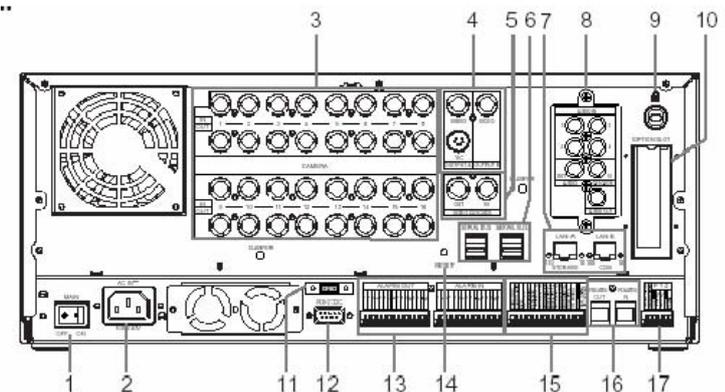


- | | | |
|------------------|------------------|----------------|
| 22. Power Button | 23. Analogue Out | 24. USB Port |
| 25. Help Button | 26. SETUP Button | 27. SEARCH |
| 28. TIMER | 29. LOCK Button | 30. TRIPLEX |
| 31. BOOKMARK | 32. DIGITAL ZOOM | 33. OPERATIONS |



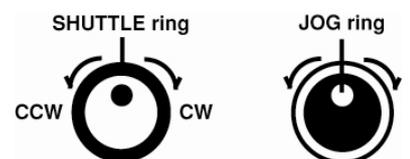
DX-TL5000E Back View:

- | | | |
|------------------------|---|-------------------|
| 1. Main Power Switch | 2. AC Power Socket | 3. Camera Inputs |
| 4. Video Output | 5. Video CASCADE In/Out Connectors | |
| 6. USB Ports | 7. LAN Port A (NAS device), Port B for PC | |
| 8. Audio Inputs | 9. Keyhole for antitheft Lock | |
| 10. Option Slot | 11. GRN Terminals | 12. RS-232 Port |
| 13. Alarm In/Out Term. | 14. Reset Button | 15. I/O Terminals |
| 16. RS-485 In/Out | 17. RS-422/RS23 | |



Jog/Shuttle Control:

Playback Speed Control Only – Turning the Shuttle (outside ring) Clock Wise or Counter Clock Wise (CW/CCW) will change the playback speed. When in Pause mode, the Shuttle is also used to set the desired playback speed. From Pause turn the Shuttle to the desired Playback speed and press Pause to hold the speed. Play to exit



Before Powering the Unit ON:

Before you turn on the DVR and begin SETUP, ensure that all cameras and peripheral devices are connected and turned on. This will ensure that all connected cameras and hard disk space is available and recognized in the setup calculations.

Please Note:

This Quick Setup Guide has been written around the **DX-TL5000E** DVR. It can be used for the DX-TL4516 and DX-TL4509, but some of the listed features are not supported.

The DX-TL4516/09 does not support the following functions;

Cascade connections

Optional SCSI interface, XGA output and Audio card.

NAS support.

The Recording Rate for the system is 100pps.

Various Recording Functions

Various recording functions

Manual normal recording

Normal recording started by a press of the REC button. The recorder starts recording according to the recording picture quality and recording rate you preset.

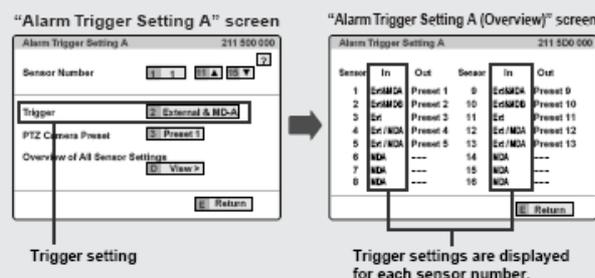
Alarm recording

Upon receipt of a preselected trigger signal to start alarm recording, the recorder starts recording according to the recording picture quality and recording rate you preset for alarm recording.

You can record more detailed images based on the recording picture quality and recording rate that are different from those in normal recording.

NEW

DX-TL5000E400/DX-TL5000E supports more detailed trigger settings for alarm recording. These settings allow flexible alarm recording depending on monitoring locations, times, and systems.

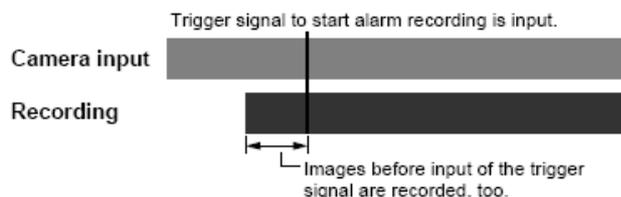


The recorder starts alarm recording according to the setting of "Alarm Input" as follows:

- "External & MD-A" : Starts when the recorder detects a motion under the conditions of "Set Motion Detection Pattern A" while any of the ALARM IN terminals is grounded.
- "External & MD-B" : Starts when the recorder detects a motion under the conditions of "Set Motion Detection Pattern B" while any of the ALARM IN terminals is grounded.
- "External" : Starts when any of the ALARM IN terminals is grounded.
- "External / MD-A" : Starts when any of the ALARM IN terminals is grounded or the recorder detects a motion under the conditions of "Set Motion Detection Pattern A".
- "External / MD-B" : Starts when any of the ALARM IN terminals is grounded or the recorder detects a motion under the conditions of "Set Motion Detection Pattern B".
- "MD-A" : Starts when the recorder detects a motion under the conditions of "Set Motion Detection Pattern A".
- "MD-B" : Starts when the recorder detects a motion under the conditions of "Set Motion Detection Pattern B".

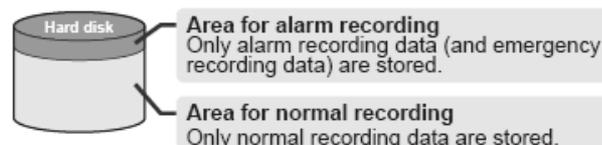
Pre-alarm recording

The recorder starts recording from the image immediately before input of a trigger signal to start alarm recording, without missing critical moments of the monitored event.



Alarm partition function

You can create a partition area on the hard disk to store only the data recorded by alarm recording (and emergency recording). This makes it possible to set different storage periods for normal recording data and alarm recording data respectively. In addition, by making certain settings, you can keep the data recorded by alarm recording for a long period while the data recorded by normal recording are overwritten.

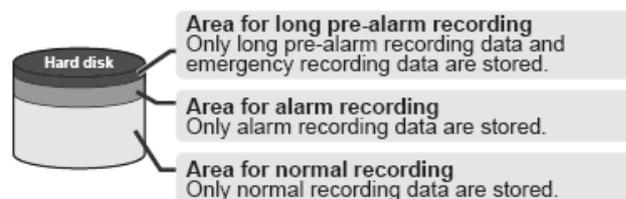


Emergency recording

When the EMERGENCY terminal receives a signal, the recorder starts recording images from all the active cameras with the highest picture quality according to the recording rate you preset. A course of an emergency event is recorded vividly without missing any moment.

Long pre-alarm recording **NEW**

The recorder carries out pre-alarm recording up to 60 minutes before it starts emergency recording. For long pre-alarm recording, create a partition area only for long pre-alarm recording (and emergency recording) on the hard disk.



Repeat recording

Even when the hard disk is filled with recorded data, the recorder continues recording by overwriting old recorded data with new data to always keep the latest image.

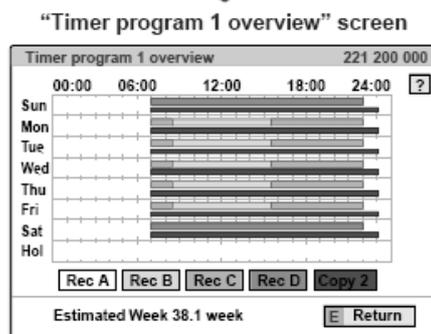
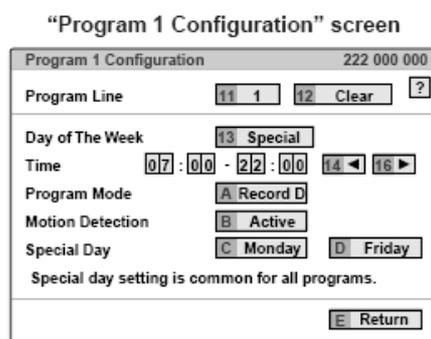
Various recording functions (continued)

■ Timer program recording

You can program the recorder to start and end recording according to the preprogrammed schedule.

You can set two patterns of timer program (Program 1 and Program 2).

Set the days of the week, recording start and end times, recording patterns (A-D), motion detector, etc. for each program line 1 to 8. As for the days of the week for recording, select from everyday, certain days of the week, holidays (specified on the "Timer Program Holiday Settings" screen), and periods between any days of the week (such as Monday to Friday and Thursday to Tuesday). (Up to 20 days can be set as holidays.)



NEW

DX-TL5000E400/DX-TL5000E has adopted a confirmation screen to display the details of the timer program in a visual way. In addition, it displays the estimated maximum recording time in programmed recording.

■ Recording pattern setting

You can set four recording patterns (A-D) in which the recording picture quality and recording rate are set for each camera.

For example, set a pattern where the recording rate is "2.5" pps and the picture quality is "High" for in-store monitoring and the rate is "0.5" pps and the quality is "Basic" for backyard monitoring.

"Recording Setting D-Normal" screen

Recording Setting D-Normal						211 2MD D00
CAM	FPS PPS	P-Grade	CAM	FPS PPS	P-Grade	
1	2.5	High	9	2.5	High	
2	2.5	High	10	2.5	High	
3	2.5	High	11	0.5	Basic	
4	2.5	High	12	0.5	Basic	
5	2.5	High	13	0.5	Basic	
6	2.5	High	14	0.5	Basic	
7	2.5	High	15	0.5	Basic	
8	2.5	High	16	0.5	Basic	

Estimated Recording Time 00 D 11 H [Return]

Estimated recording time (automatically calculated) is displayed.

* Estimated recording time displayed on the menu screen is an estimated time over which the recorder is able to continue recording in terms of its functional operation, not a product warranty period. This period is not a period over which the operational reliability of the components and parts used in the recorder is assured.

Because recording pattern settings are applicable to timer program setting, you can conduct efficient timer recording by changing the recording rate and recording picture quality for each camera and each time period.

■ Recording with 4-ch audio **NEW**

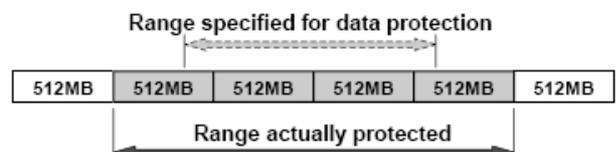
Audio from four channels can be recorded together with video data. Though the AUDIO IN connectors 1 to 4 function in conjunction with the CAMERA IN connectors 1 to 4 basically, you can output audio from any channel during playback regardless of the screen mode.

You can also record audio only in alarm recording and emergency recording.

■ Data protection **NEW**

You can protect the areas having important recorded data (or prohibit overwriting of those areas) so that those data aren't erased accidentally.

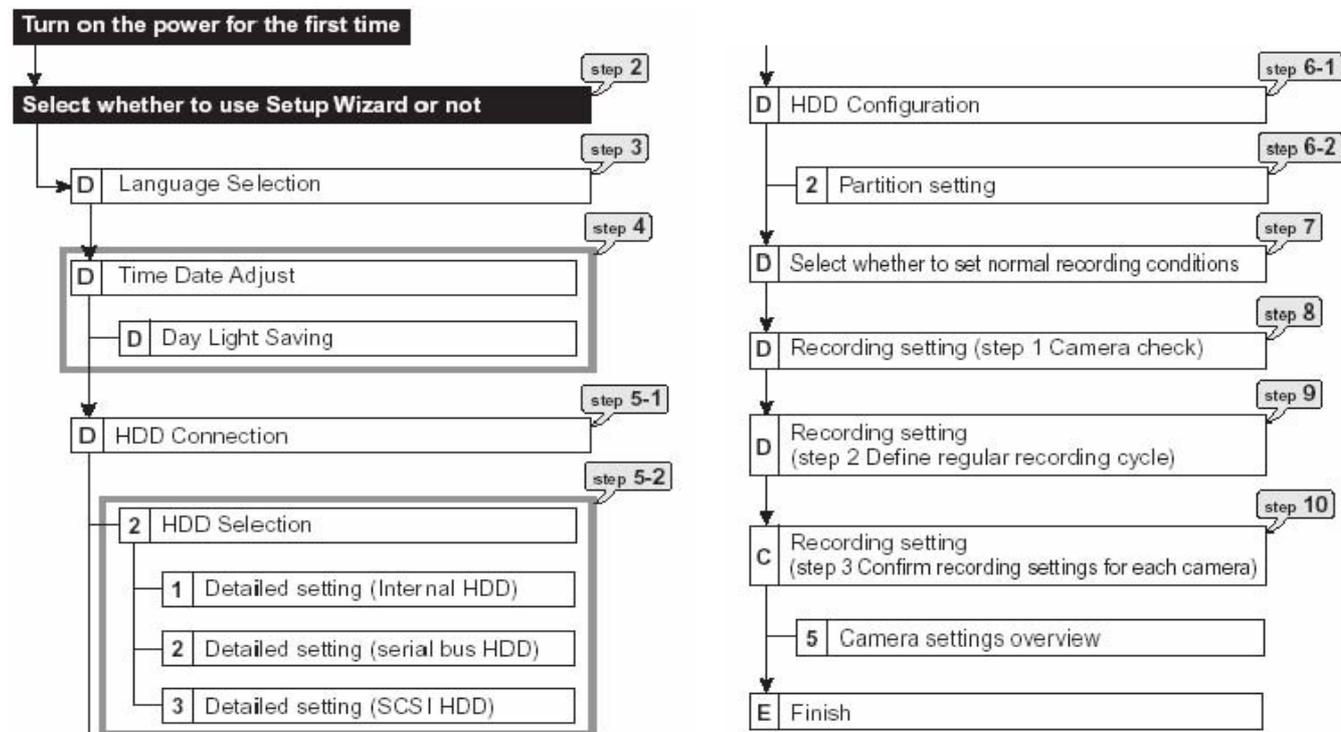
You can protect up to 500 areas. Protected data are handled by 512 MB.



1st Time Power Up & SETUP Wizard:

When the DVR is Turned On for the first time a SETUP WIZARD is made available to help you quickly setup required areas like current time, hard disk configuration, recording requirements and checking for connected cameras. Once done, you can start recording. All settings can be modified after you exit the wizard enabling you to fine tune the DVR. When the SETUP WIZARD is displayed, select "GO" if you want to go through the process, if you do not want to use it select "QUIT". Also, if you choose to use the WIZARD, you must complete the process before you can exit its settings.

Following are the steps that the WIZARD takes you through



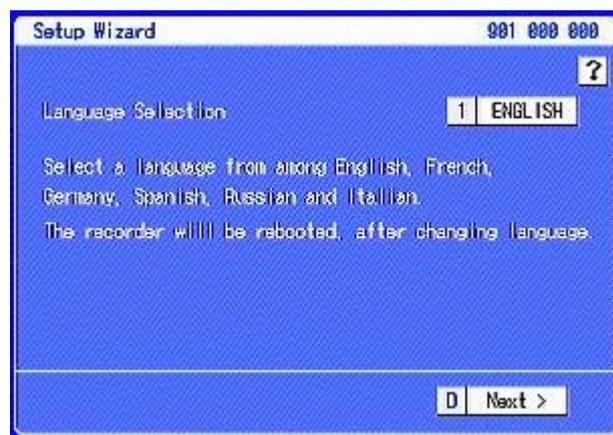
SETUP WIZARD Screens

Start Screen.



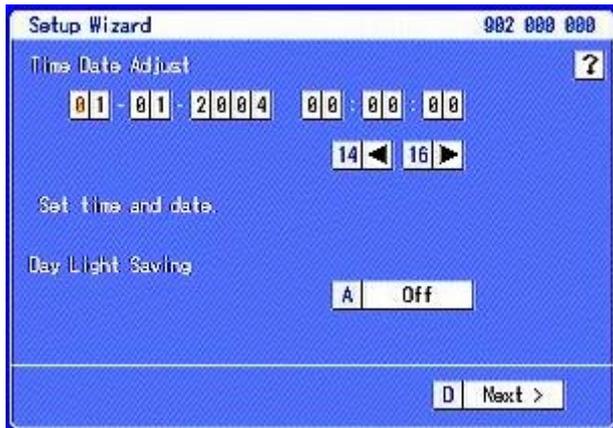
(900 000 000) Select D on front panel or use a USB Mouse and click on Go >

Language Selection.



(901 000 000) Select Language Press D Next

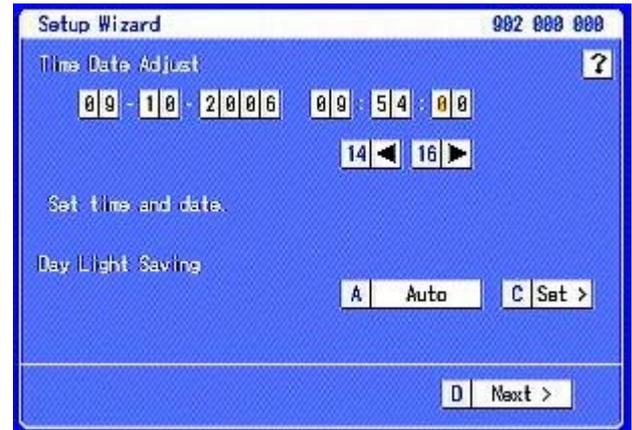
1 Date and Time.



(902 000 000) Set Time and Date

Use Cam buttons 14 & 16 to navigate and camera Numbers to change the values.

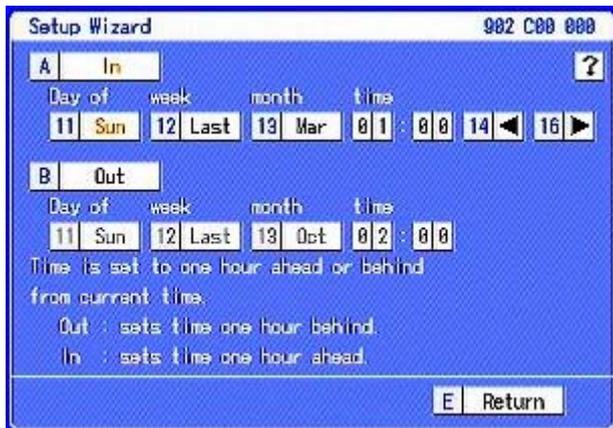
2 Daylight Saving.



(902 000 000) Press A Auto

Press C Set

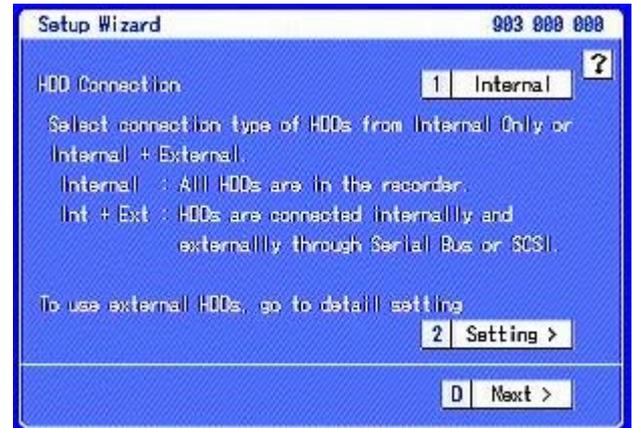
3 Daylight Saving Date and Times.



(902 C00 000) Confirm Details are correct for your region.

Press E Return

4 Hard Disk Drives Connection.



(903 000 000) Normally Internal if you are using just the internal HDD.

Press 2 Settings

5 Hard Disk Drives Connection.



(903 200 000)

Press 1 Settings

6 Internal HDD settings.



(903 210 000) Normally settings Main: **

** is the HDD number.

This screen also displays the size of the HDD the above example is 1.25TB

INTENTIONALLY BLANK

7



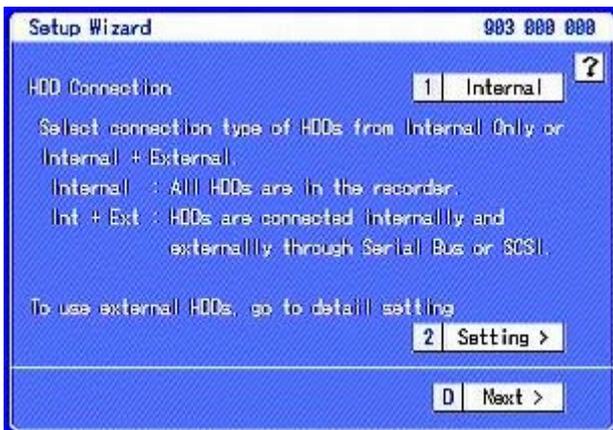
Press E Return

8



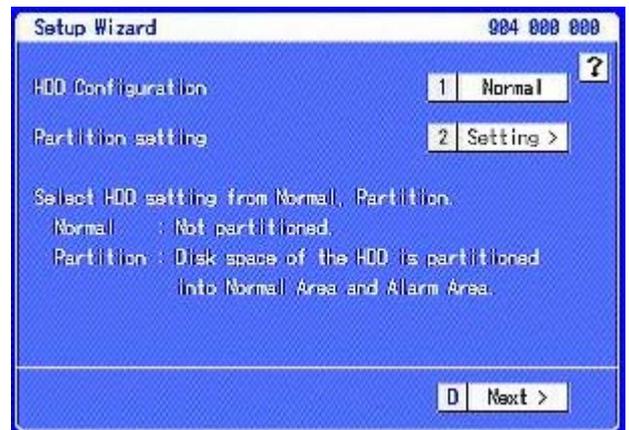
Press E Return

9 HDD Connection



(903 000 000) Press D Next

10 HDD Configuration.



(904 000 000) Set to Normal if not using Alarm Partition
Press D Next

11 Camera Check.



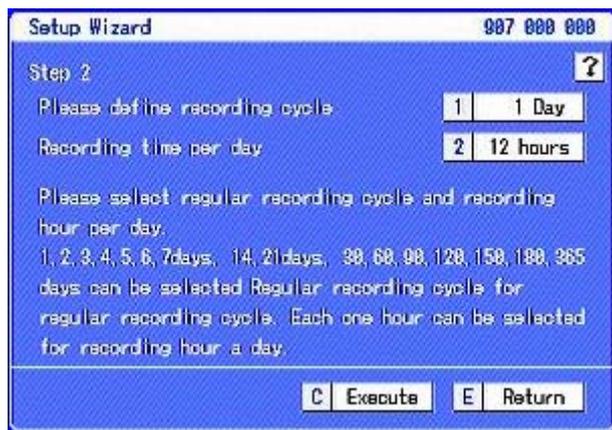
(905 000 000) Press D Next

12 Camera Detection.



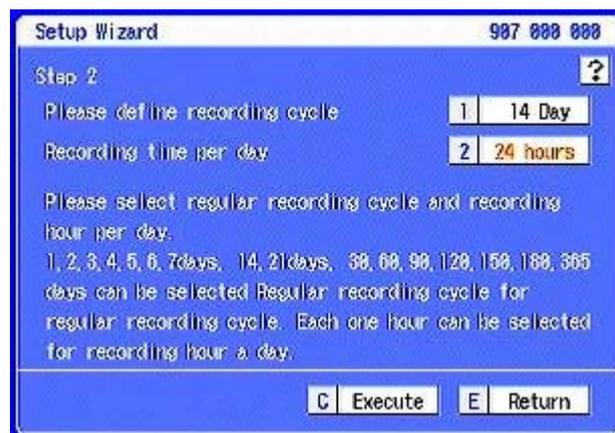
(906 000 000) Press C Execute
This will display the connected cameras
Press D Next

13 Recording Cycle.



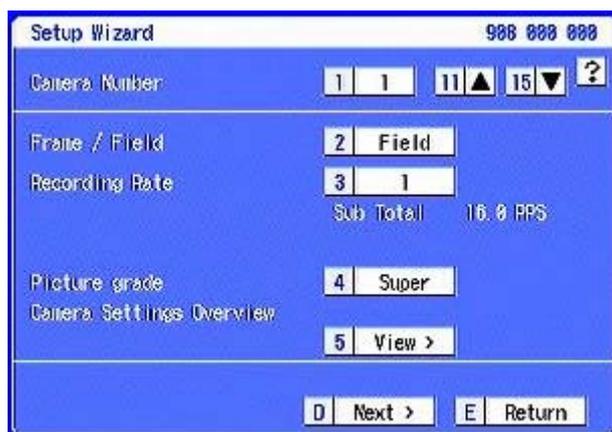
(907 000 000) Set the Recording Cycle

14



Example Press 1 to 14 Days, & Quality
Press 2 to 24 Hours
Press C Execute

15 Camera recording settings.



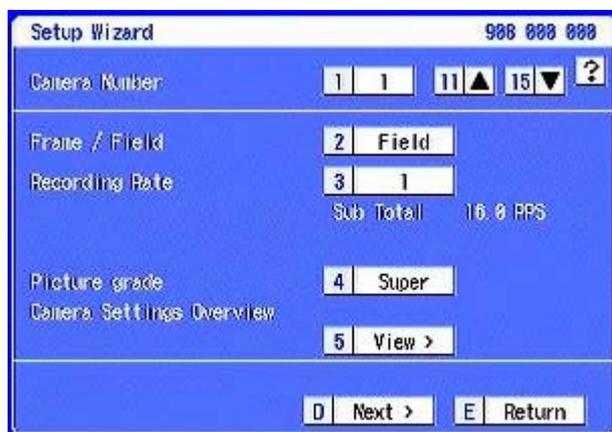
(908 000 000) Calculated Recording Rate
Press 5 View

16 Camera recording settings overview.



(908 500 000) The settings are calculated based on the Recording Cycle values.
Press E Return

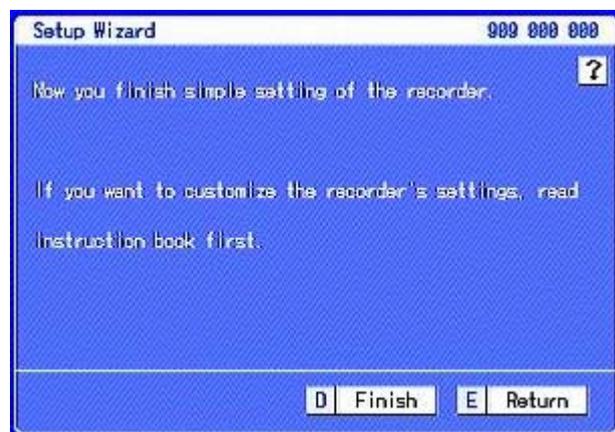
17



(908 000 000) Press D Next

Note: If required please change Recording Rate and Picture Grade etc.

18



(909 000 000) Press D Finish

Start Recording

Press the REC/STOP button.

- The REC/STOP button lights up and recording starts.



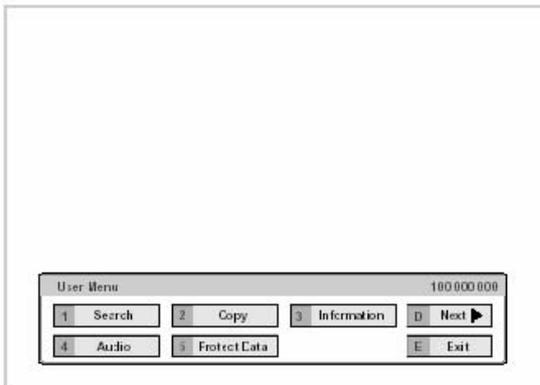
To stop recording, press the REC/STOP button for more than 2 seconds.

- Recording stops and the light turns off.

Menu structure

- To **ACTIVATE** the **MENU** simply press the **SETUP** button on the DVR or if a mouse is being used (connected to a USB port) left click the mouse and the DVR menu screen will be displayed. The User Menu screen will be displayed first. To go to the next screen press the letter "D" on the front panel or with the mouse click on "NEXT".

◆ Displaying a menu screen



- step 1. Press the SET UP button or click the left button on the mouse to display a menu.
- The <User Menu> appears.
 - To open other menu, press the D button or left-click on "Next ▶."



- When you use a mouse, click the following area to operate.



User Menu



(100 000 000)

Setup Menu



(200 000 000)

System Menu



(300 000 000)

MOTION ALARM RECORDING

The Instructions for the SETUP Wizard have configured the DX TL5000E to record continuous; below we will now cover how to program Motion Alarm Recording.

SETTING MOTION DETECTION AREA:

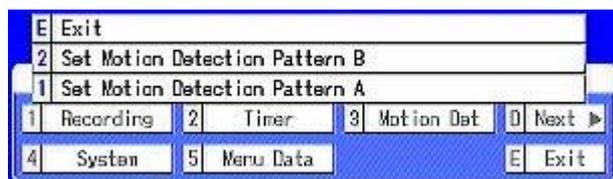
Two patterns independent from each other are available. Pattern A and Pattern B.

Setup Menu



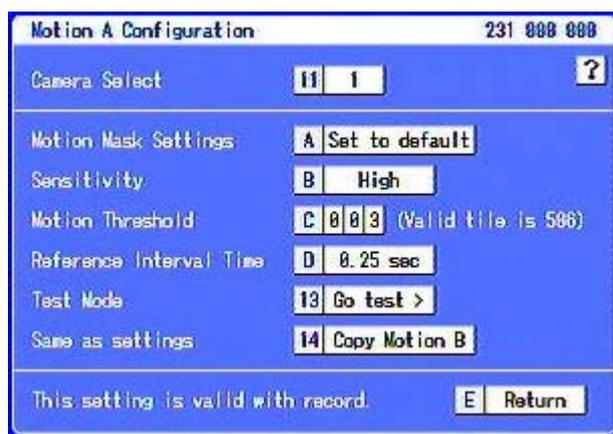
(200 000 000) Select 3 Motion Det

Motion A Configuration



Select 1 Set Motion Detection Pattern A

Motion A Configuration



(231 000 000)

11 **Camera Select** – Selects camera to be configured for motion.

A **Motion Mask Settings** – Select and SET settings:
Set to Default (as above)
Enable All
Disable All
Manual

B **Sensitivity** – Select Sensitivity to change is needed to activate motion (for any of the set areas if multiple areas have been activated).

C **Motion Threshold** – Select number of squares which

D **Reference Interval Time** – Select time of how often the area set to motion will be sampled

13 **Test Mode** – Select Test Mode to test the set area. The colour of the dot detecting motion changes.

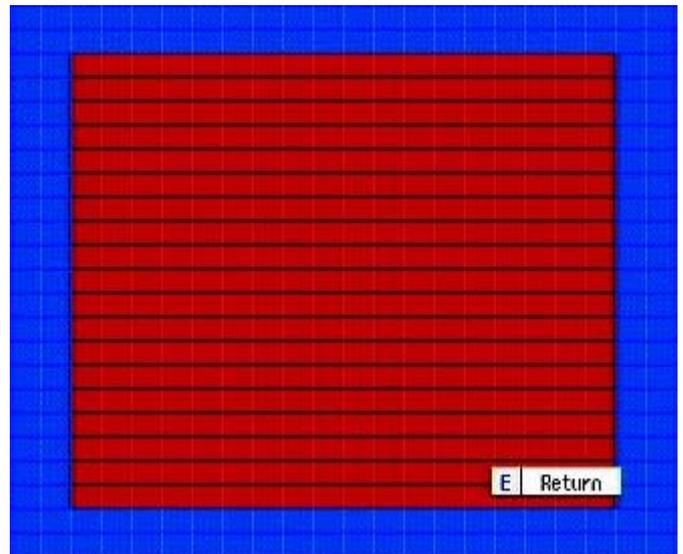
14 **Copy Motion B** – This copies Motion B settings into the current Motion A settings.

Changing Motion Area

Red area is active and Blue area is inactive.

(When setting by the mouse:)

- To set the area one by one, left-click the desired area. The area switches between active and inactive each time you click the mouse.
- To set the multiple areas at a time, right-click the start point of the active area (to cancel to set the start point, left-click on the start point), and then right-click again on the end point. The frame of the designated area displays in yellow and the areas being set become colour less. The area switches between active and inactive each time you left-click the mouse in the selected area. The setting is completed with right-clicking on the area outside of the designated areas after determining active/inactive.



(When setting by the front panel buttons:)

- To set the area one by one, press M-DET AREA SET UP (camera number 13) button and select the desired area using ▲, ▼, ◀, ▶ buttons, and then press the M-DET DOT ON/OFF (camera number 9) button. The area switches between active and inactive each time you press the button.
- To set the multiple areas at a time, press M-DET AREA SET UP button and select the start point Using ▲, ▼, ◀, ▶ buttons, and then press M-DET AREA SET UP button again. To select the end point, use ▲, ▼, ◀, ▶ buttons and then press M-DET AREA SET UP button. The frame of the designated area displays in yellow and the area switches between active and inactive each time you press the M-DET DOT ON/OFF button. The setting is completed by pressing the M-DET AREA SET UP button again after determining active/inactive.

The motion detection of this unit works by detecting the changes of brightness. So, the malfunction due to the change of the lightning or sunlight may occur, or motion detection does not function on the conditions such as the colours of the background and the clothes are the same.

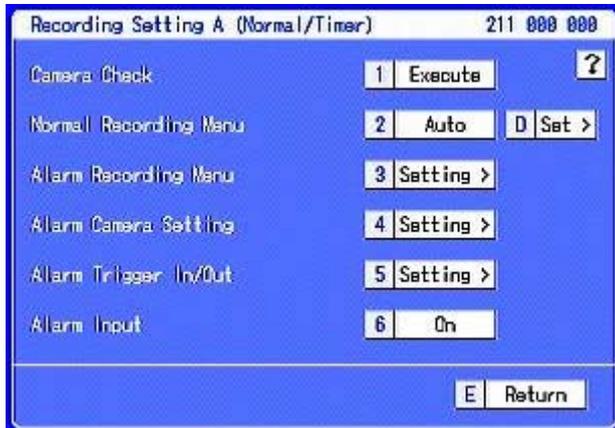
Be sure to test Motion Detection function sufficiently.

Note: When change is detected continuously, some functions such as setting change are not available because alarm recording is also continuously performed. In this case, motion detection function can be forcibly stopped for five minutes by setting the

“Alarm Input” option 6 in the Recording Setting menu to “Off.”

You can change the settings by stopping recording during this time.

This stopping is automatically released five minutes after the operation, and registered in the system log list.



(211 000 000)

To cancel the prohibition of alarm input manually, set **option 6** to **“On.”**

Please refer to Page 59 of the DX-TL5000E for more information.

Operation Example Motion Detection

Background Recording all cameras Recording Super Resolution @ 0.125pps 24hrs X 7days.

Motion Recording Super Resolution @ 6.25pps 24hrs X 7days.

Pre Alarm time 2 seconds, Post Alarm time 5 seconds.

Note: Changes to Recording Settings can not be changed while the DX-TL5000E is Recording.

1st STOP RECORDING

To stop recording, press the REC/STOP button for more than 2 seconds.



- Recording stops and the light turns off

Press **SET UP** or left click USB mouse button connected to front of the unit.

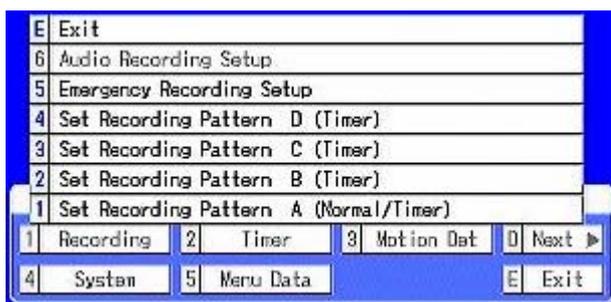
Programming Motion Detection

1 Setup Menu



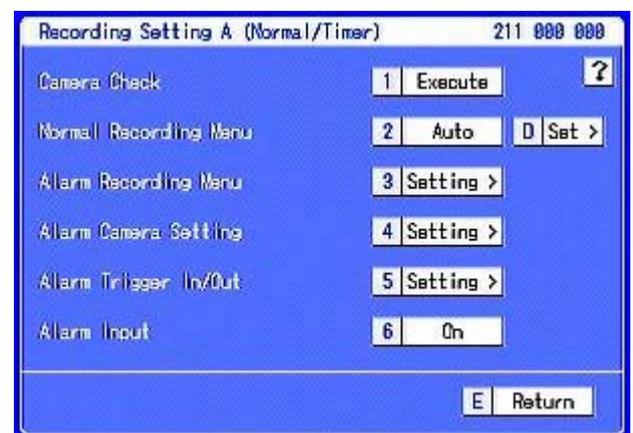
(200 000 000) Select 1 Recording

2. Recording Settings



Select 1 Set Recording Pattern A (Normal/Timer)

3 Recording Setting A (Normal/Timer)



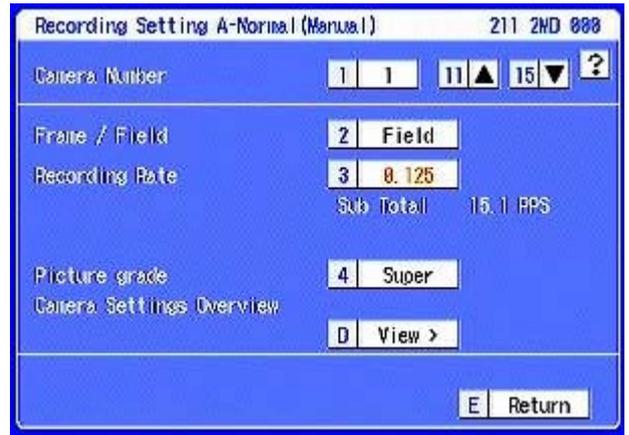
(211 000 000) Select 2 to Manual

4 Recording Setting A (Normal/Timer)



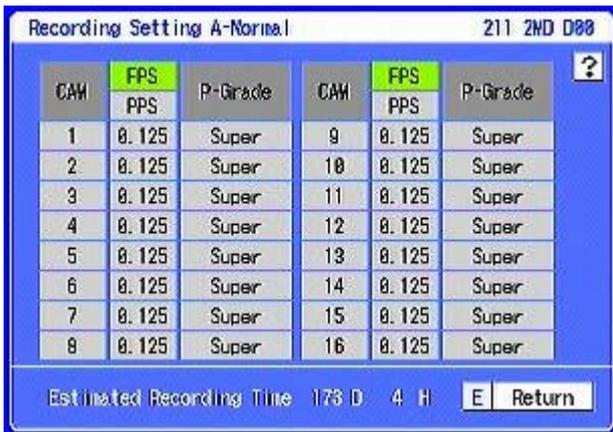
(211 000 000) Select D Set

5 Recording Setting A (Manual)



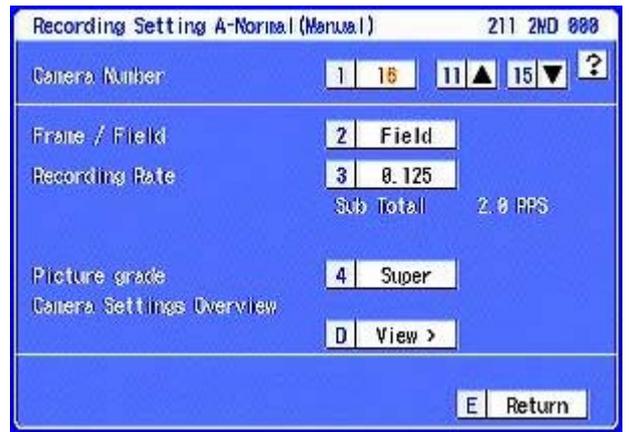
(211 2MD 000) Set Recording Rate 0.125 for all cameras
Select D View

6 Recording Setting A-Normal



(211 2MD D00) Confirm settings are correct
Select E Return

7 Recording Setting A-Normal (Manual)



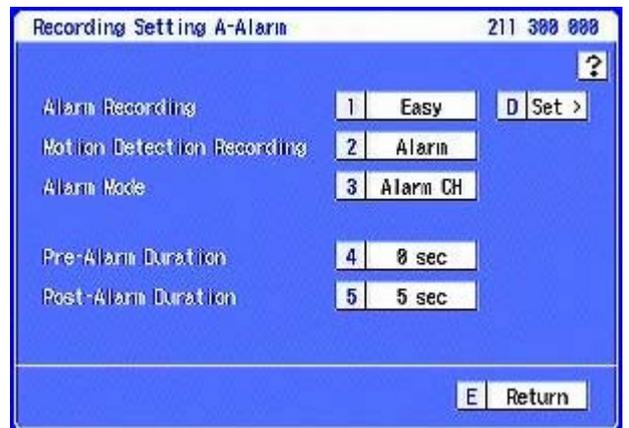
(211 2MD 000) Select E Return

8 Recording Setting A (Normal/Timer)



(211 000 000) Select 3 Alarm Recording Menu

9 Recording Setting A- Alarm



Select 1 to Manual

INTENTIONALLY BLANK

10 Recording Setting A- Alarm

(211 300 000) Select **D Set**

12 Recording Setting A- Alarm (Manual)

(211 3MD 000) 1 Camera numbers
3 Recording Rate **6.25**
4 Picture Grade **Super**
Select **D View**

14 Recording Setting A- Alarm (Manual)

(211 3MD 000) Select **E Return**

11 Recording Setting A- Alarm (Manual)

Change settings

13 Recording Setting A- Alarm

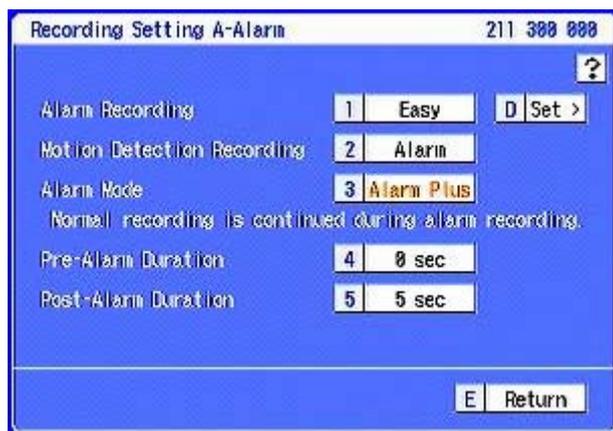
CAM	FPS PPS	P-Grade	CAM	FPS PPS	P-Grade
1	6.25	Fine	9	6.25	Super
2	6.25	Super	10	6.25	Super
3	6.25	Super	11	6.25	Super
4	6.25	Super	12	6.25	Super
5	6.25	Super	13	6.25	Super
6	6.25	Super	14	6.25	Super
7	6.25	Super	15	6.25	Super
8	6.25	Super	16	6.25	Super

(211 3MDD00) Check Settings
Select **E Return**

15 Recording Setting A- Alarm

(211 300 000)
Select **3 change to Alarm Plus, E Return**

16 Recording Setting A- Alarm



(211 300 000) Select 4 Pre-Alarm time to 2 sec

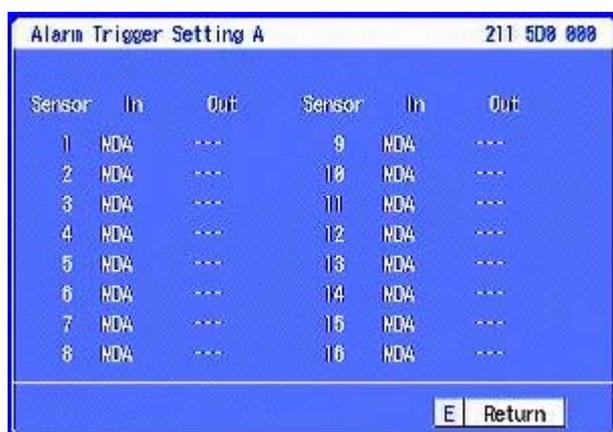
18 Recording Setting A (Normal/Timer)



(211 000 000) Select 5 Alarm Trigger In/Out

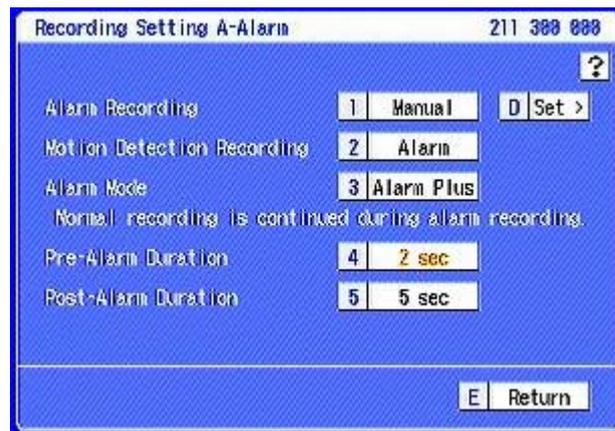
NOTE: When MD-A is turned ON the DVR will start Recording, turn Alarm Input 6 to Off so you can continue to change settings.

20 Alarm Trigger Setting A



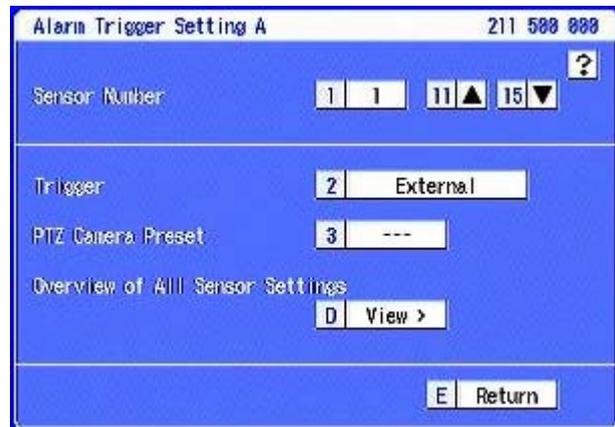
(211 5D0 000) Select E Return

17



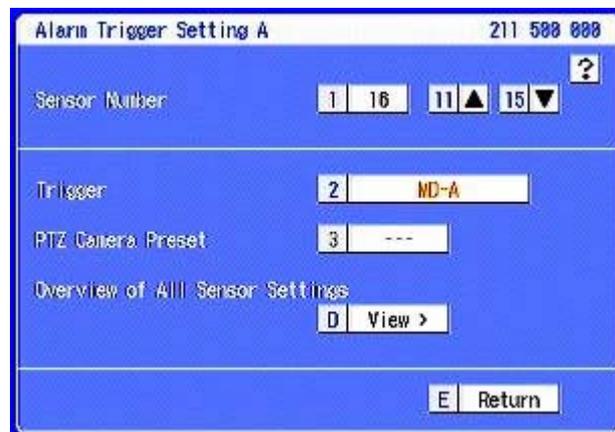
(211 300 000) Select E Return

19 Alarm Trigger Setting A

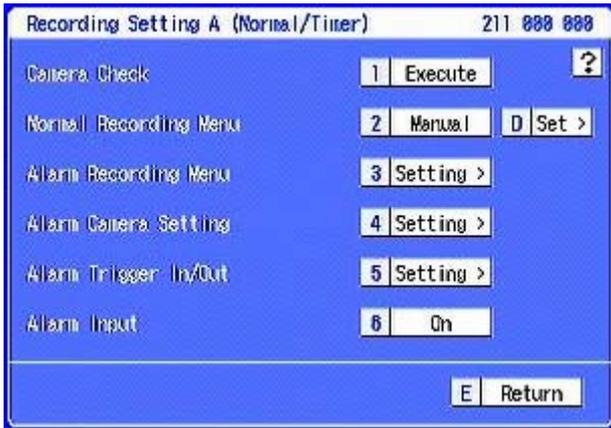


(211 500 000) Select 2 Change to MD-A for all cameras
Select 1 to change sensor number
Select D View

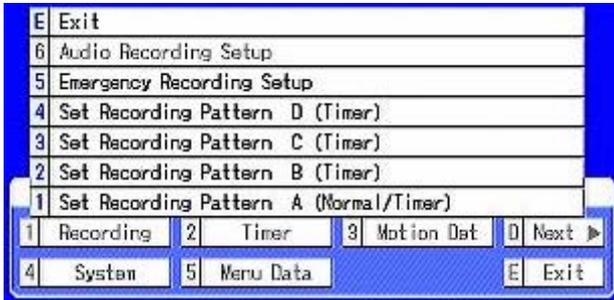
21



(211 500 000) Select E Return



Turn Alarm Input 6 to On, then Press E Return



Press E Exit

To Start Recording

Press the REC/STOP button.

- The REC/STOP button lights up and recording starts.



Press E Exit **FINISHED PROGRAMING**

Testing Programming.

It is Highly Recommended that the cameras programmed for Motion Recoding, are walk tested to activate the Motion detection.

Confirm that your setting have recorded what is required.

Use playback to check recording pps and image quality settings.

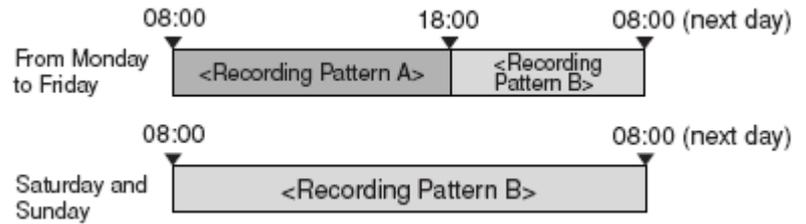
NOTES

Operation Example Timer Recording

- Set Recording Pattern A (Normal/Timer) from 08:00 to 18:00 on Monday to Friday.

- Set Recording Pattern B (Timer) from 18:00 to 08:00 (alarm recording operation : motion detection B) on Monday to Friday.

- Set Recording Pattern B (Timer) Saturday and Sunday.



Recording settings **Pattern A 2.5 pps Super**
Pattern B Motion 4.167 pps Super

RECORDING Over view:

This feature is the hart of the DVR and it's very flexible.

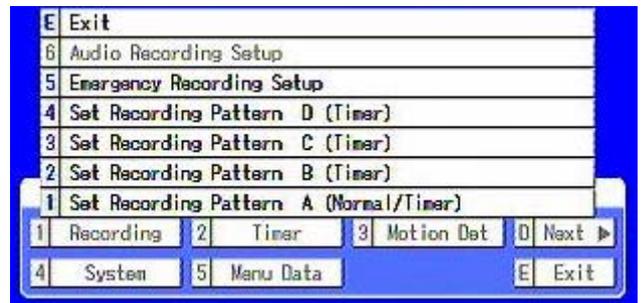
Record Pattern A to D

The DVR can be set to REC in one of two modes:

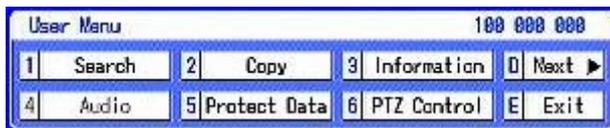
Pattern A – Normal or Regular REC. method.

Once the various parameters have been set, pressing the RECORD button will place the DVR in REC. mode.

Pattern B-D – These REC. patterns are used when the unit is programmed to REC. in **TIMER (scheduled) mode only.**



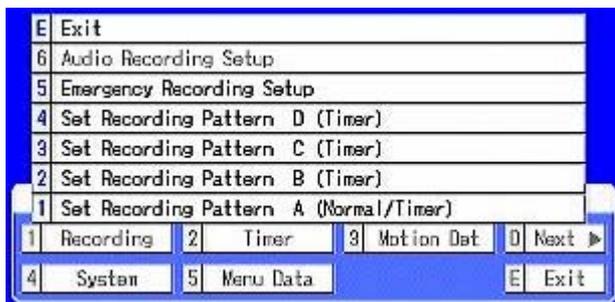
Enter System Menu



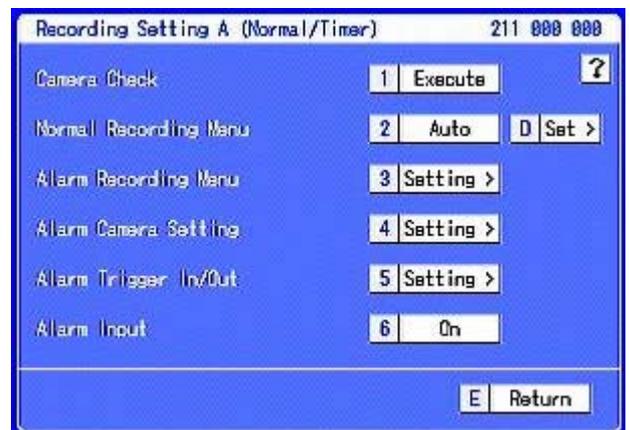
(100 000 000) Press Set up then D Next



(200 000 000) Press 1 Recording



Press 1 Set Recording Pattern A



Press 2 Easy Press D Set

NOTE: Turn Recording OFF so you can change settings, if Alarm Recording via Motion you will have to turn the Alarm Input to OFF then stop recording.

5 Rec Setting A-Normal (Easy)

Recording Setting A-Normal (Easy) 211 2ED 000

Frame / Field 1 Field

Recording Rate per Camera 2 1
Total 16.0 FPS

Picture Grade 3 High

D Execute E Return

(211 2ED 000) Set 2 to 2.5pps
Set 3 to Super

6

Recording Setting A-Normal (Easy) 211 2ED 000

Frame / Field 1 Field

Recording Rate per Camera 2 2.5
Total 40.0 FPS

Picture Grade 3 Super

D Execute E Return

Press D Execute

7

Recording Setting A-Normal 211 2ED D00

CAM	FPS PPS	P-Grade	CAM	FPS PPS	P-Grade
1	2.5	Super	9	2.5	Super
2	2.5	Super	10	2.5	Super
3	2.5	Super	11	2.5	Super
4	2.5	Super	12	2.5	Super
5	2.5	Super	13	2.5	Super
6	2.5	Super	14	2.5	Super
7	2.5	Super	15	2.5	Super
8	2.5	Super	16	2.5	Super

Estimated Recording Time 8 D 15 H E Return

(211 2ED D00) Press E Return

8

Recording Setting A (Normal/Timer) 211 000 000

Camera Check 1 Execute

Normal Recording Menu 2 Manual D Set >

Alarm Recording Menu 3 Setting >

Alarm Camera Setting 4 Setting >

Alarm Trigger In/Out 5 Setting >

Alarm Input 6 On

E Return

Note: All cameras are enabled go back to option 2 Manual D Set, to recording rate of cameras to --- (not recoding).

9

Recording Setting A-Normal (Manual) 211 2ND 000

Camera Number 1 1 11▲ 15▼

Frame / Field 2 Field

Recording Rate 3 2.5
Sub Total 40.0 FPS

Picture grade 4 Super

Camera Settings Overview D View >

E Return

10

Recording Setting A-Normal (Manual) 211 2ND 000

Camera Number 1 16 11▲ 15▼

Frame / Field 2 Field

Recording Rate 3 ---
Sub Total 37.5 FPS

Picture grade 4 Super

Camera Settings Overview D View >

E Return

(211 000 000) Press D View

11 Recording Setting A-Normal



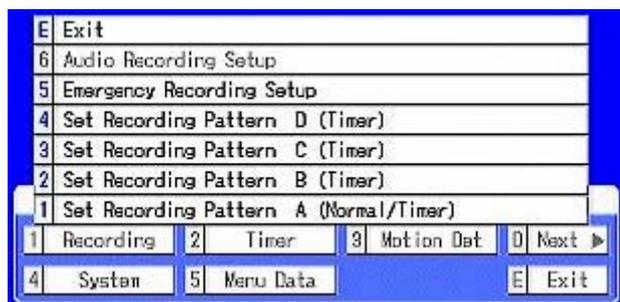
Confirm settings for connected cameras

Pattern A Set to 2.5pps Super

Press E Return X 3 times

Pattern B Recording

1



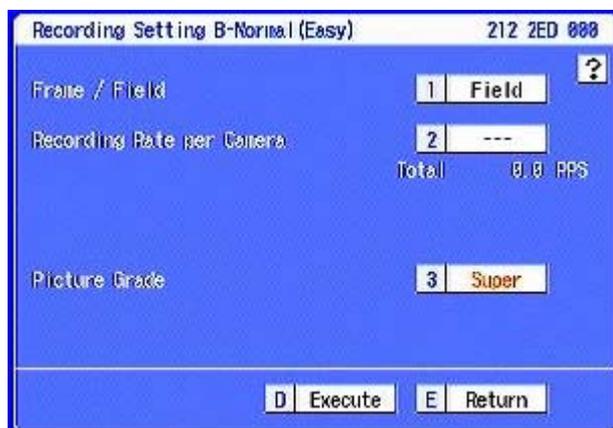
Press 2 Set Rec Pattern B

2 Recording Setting B (Timer)



(212 000 000) Press 2 Easy Press D Set

3 Recording Setting B-Normal (Easy)



(212 2ED 000) Press 2 to --- no recording
Press D Execute

4



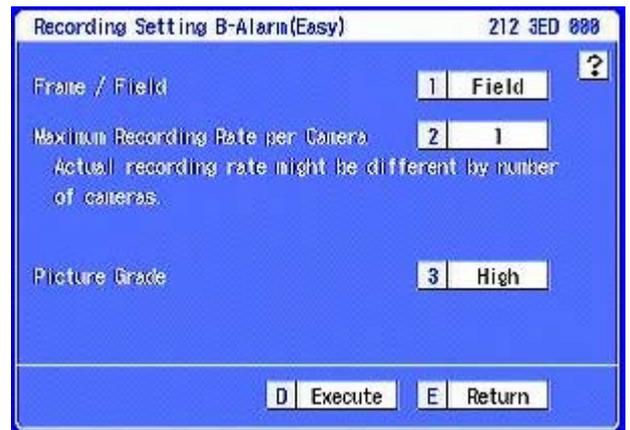
Press E Return twice

5 Recording Setting B (Timer)



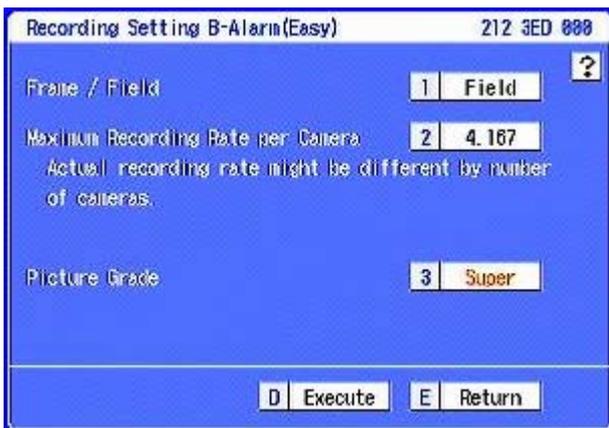
(212 000 000) Press Alarm Rec 3 Setting

6 Recording Setting B-Alarm (Easy)



Press 2 set to 4.167, Press 3 Super

7



Press D Execute

8



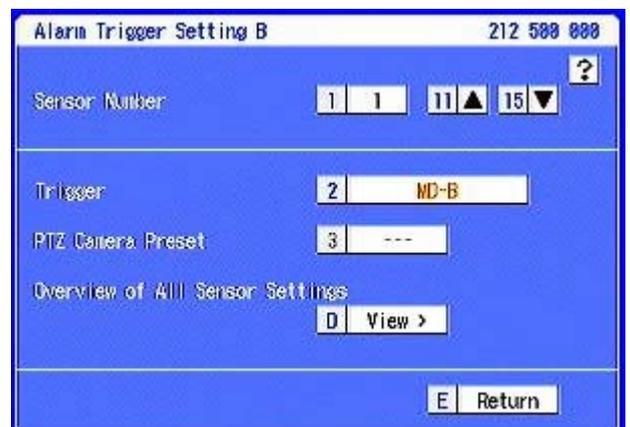
Press E Return X 3

9



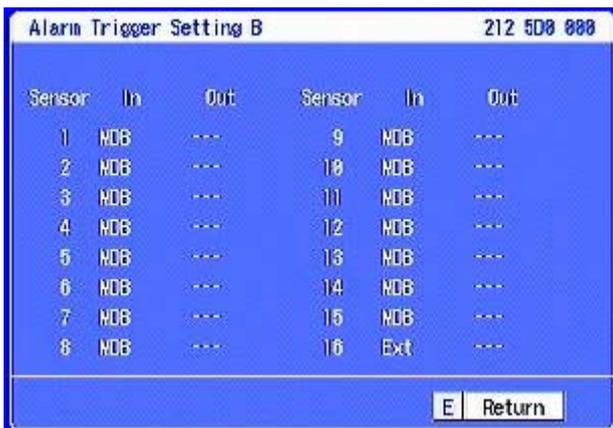
Press 5 Alarm Trigger Setting

10 Alarm Trigger Setting B



Change 2 Trigger to MD-B for all cameras
Press D View

11 Alarm Trigger Setting B



Check settings, Press E Return X 3

Motion B Settings

SETTING MOTION DETECTION AREA:

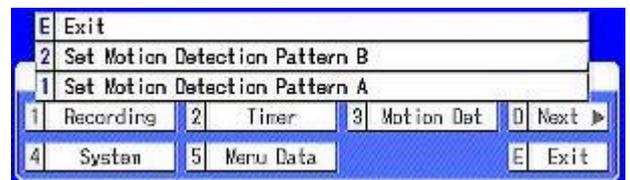
Two patterns independent from each other are available. Pattern A and Pattern B.

Setup Menu



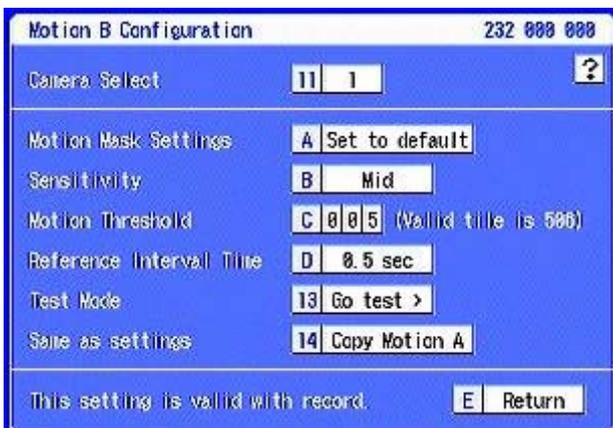
(200 000 000) Select 3 Motion Det

Motion B Configuration



Select 2 Set Motion Detection Pattern B

Motion B Configuration



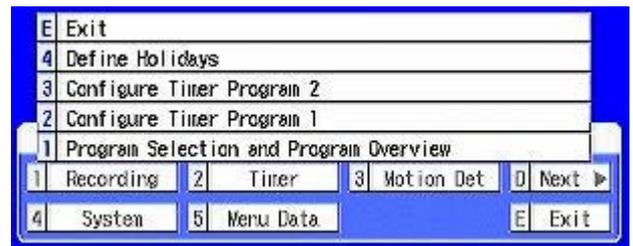
See Page 12 for more details on Motion Configuration

TIMER Programming

Setup Menu



(200 000 000) Press 2 **Timer**



Press 2 **Configure Timer Program 1**

Set the timer programming as follows

Program Line 1

Press 13 to **Everyday**

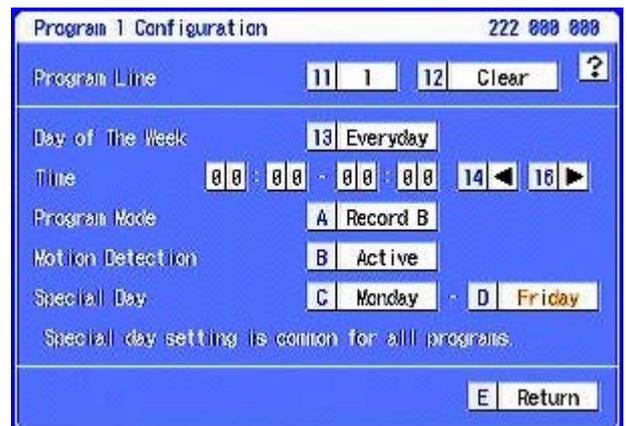
Enter times **00:00 – 00:00**

Press A Program mode **Record B**

Press B Motion Detection **Active**

Press C Special Day **Monday**

Press D Special Day **Friday**



Press 11 **Program Line 2**

Press 13 to **Special**

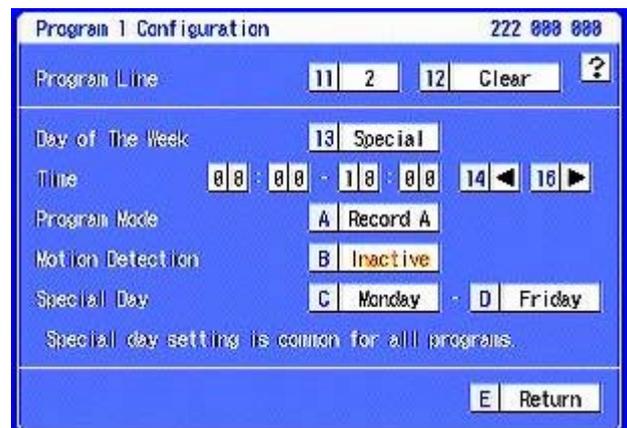
Enter times **08:00 – 18:00**

Press A Program mode **Record A**

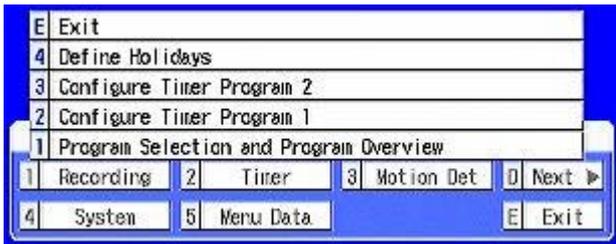
Press B Motion Detection **Inactive**

Special Day **Monday** to

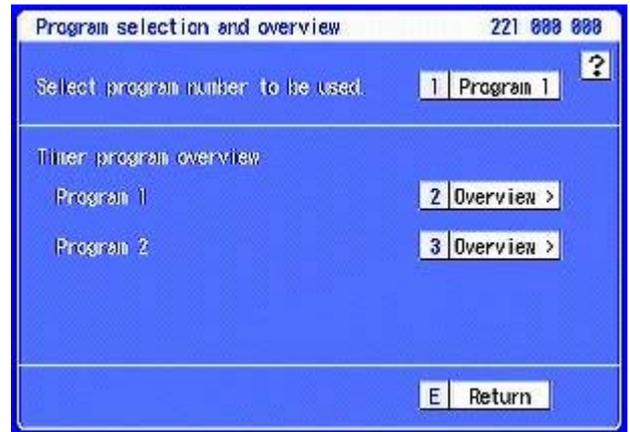
Special Day **Friday**



Press E **Return**



Press 1 Program Selection and Program Overview



(221 000 000)

Press 2 Overview

Confirm time and dates are correct for

Rec A, Rec B profiles

Record A Monday to Friday 08:00 – 18:00

Record B Monday to Friday 18:00 – 08:00

Record B Saturday and Sunday



Press E Return X 4 times to exit the Menu

Activate the Timer; press the TIMER button on the front panel of the unit.

- The TIMER indicator lights up.
- The power turns off and the unit switches to the timer recording stand-by mode. If the present time is within the programmed time period, for the timer recording. The timer recording starts.
- Timer recording and timer recording stand-by mode can be cancelled by pressing the TIMER button again for more than 2 seconds.

If Recording does not start, there could be an error in the settings. To prevent such errors for timer recording, this unit notifies errors using methods shown below. If there is an error in the settings, please take the necessary procedures shown below.

Unit status	Description of error	Countermeasure	Page
TIMER indicator flashes and the series of short beeps (beep-beep-beep) sounds.	1) The date/time is not set. 2) Timer program setting has not been set to operate. 3) Program is currently being set.	1) Set the date/time. 2) Set the correct program. 3) Determine the settings.	60 56, 57 56, 57
Timer recording does not perform even when the programmed time is reached.	1) "Repeat of Normal Recording Area," "Repeat of Alarm Recording Area," and "Repeat of LPA Recording Area" (System Menu → Memory → Data Management Setting for Main Memory) are set to "Repeat Off," and there is no HDD space left.	<ul style="list-style-type: none"> • Clear the warning display. • Set "Repeat of Normal Recording Area," "Repeat of Alarm Recording Area," and "Repeat of LPA Recording Area" (System Menu → Memory → Data Management Setting for Main Memory) to "Repeat On." 	82

The referred page numbers are from the DX-TL5000E install manual.

Notes on Timer Programming

1. Up to 8 program lines can be set in one program number.
2. When the recording period of 2 or more programs are overlapped, the higher-numbered program is given priority.
3. When the alarm trigger is set to "External," the motion detection recording is not available in the timer recording even if the motion detection is set to "Active" in timer setting.
4. When the trigger for alarm recording is set to "External & MD-A" or "External & MD-B," and the motion detection for timer setting is set to "Inactive," the recording is not started even when the ALARM IN terminal is grounded.

NOTES

Connecting 2 DX-TL5000 together (CASCADE)

Up to 16 DX-TL5000's can be connected together to create a 256 camera system (see diagram page 32)

Programming Cascade Contention

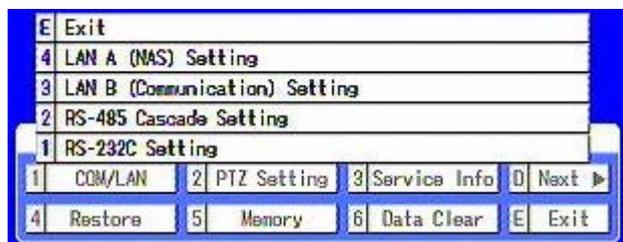
Enter the System Menu:

Press the **SET UP** Button on the front of the DVR

From the User Menu screen (000 000 000), press the **D NEXT** button twice to display the **SYSTEM MENU (300 000 000)**.

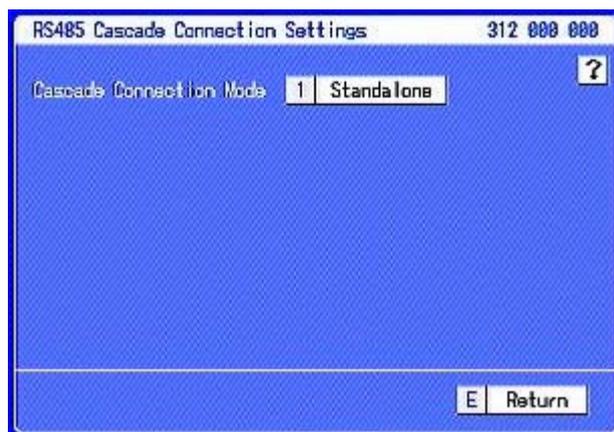


(300 000 000) Press 1 **COM/LAN**

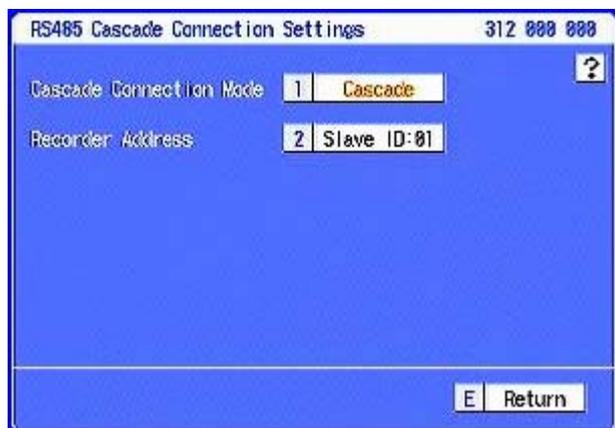


Press 2 **RS-485 Cascade Setting**.

RS485 Cascade Connection Settings



(312 000 000) Press 1 to **Cascade**



Press **E Return**, then **E Exit** twice to exit SET UP.

Standalone: Does not perform the cascade function.

Cascade: Performs the cascade function.

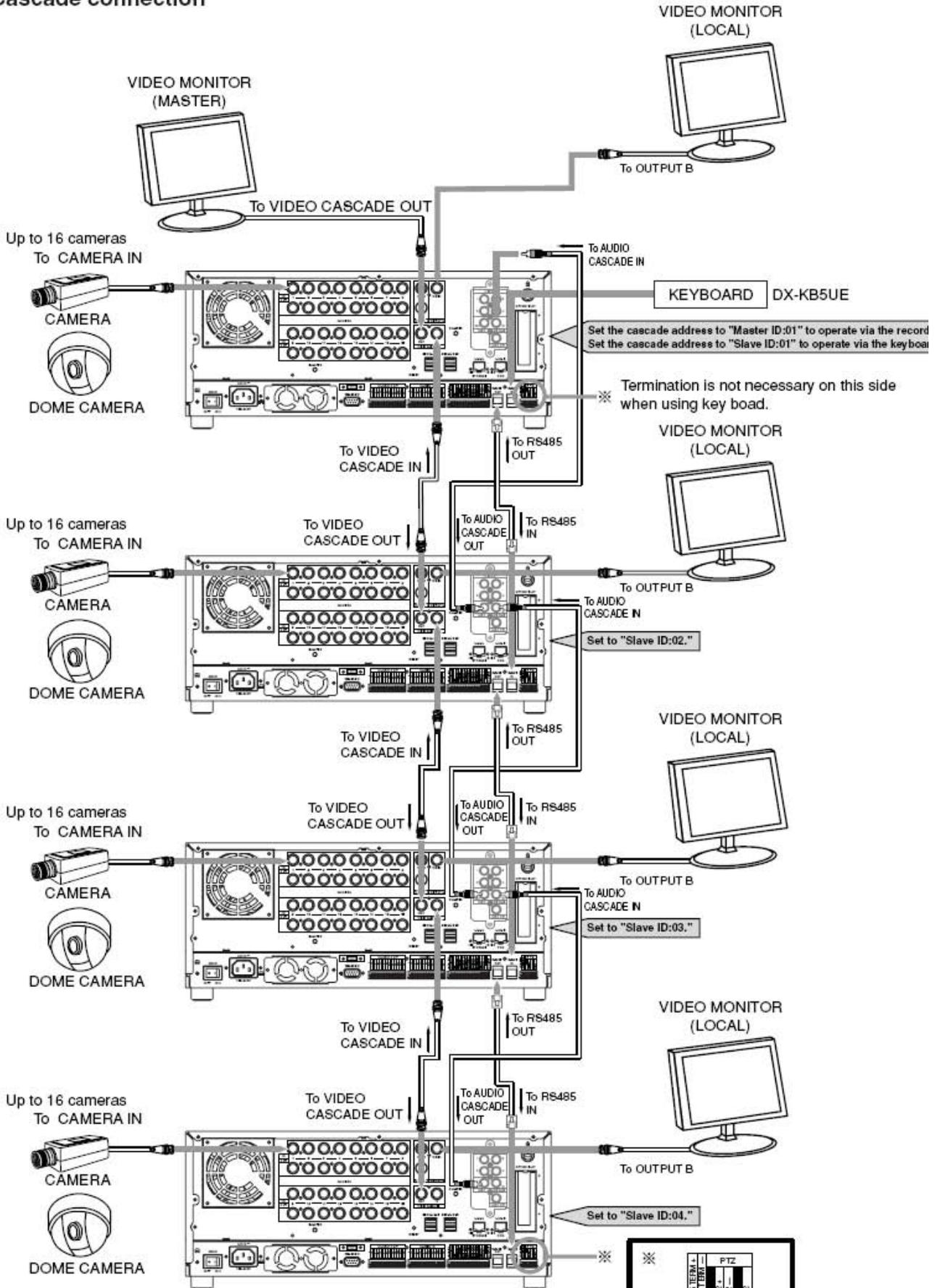
CASCADE Settings – This feature is used to control more than one DVR from a Master DVR.

Up to 16 DVR's can be cascaded together.

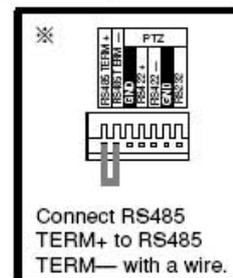
From the master DVR you can view video and control any DVR down the chain.

1. **Select the CASCADE connection mode**
2. **Select the DVR address, Slaves are from ID:01 to 16.**

■ Cascade connection



Note: Last DVR must have the RS485 bus terminated.

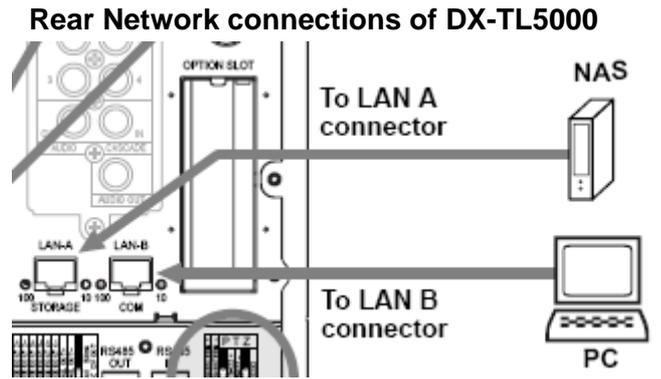


Network Configuration LAN B

The LAN B connection is used to network the DVR for remote access via the inbuilt Web Server or PC55 and PC200 software from a remote PC.

Default IP settings

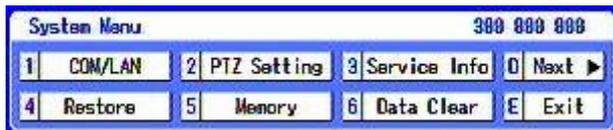
IP address **192.168.000.100**
Sub Net Mask **255.255.255.000**



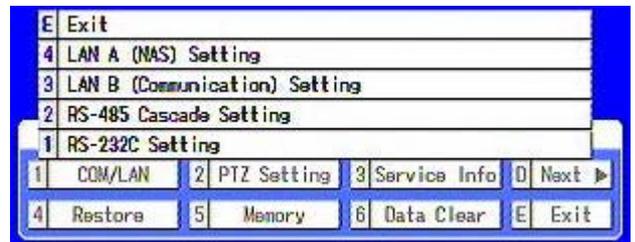
To change the settings enter the System Menu:

Press the **SET UP** Button on the front of the DVR

From the User Menu screen (**000 000 000**), press the **D NEXT** button twice to display the **SYSTEMS MENU (300 000 000)**.



(300 000 000) Press 1 **COM/LAN**



Press 3 **LAN B (Communication) Setting**

LAN B Settings



(313 000 000)

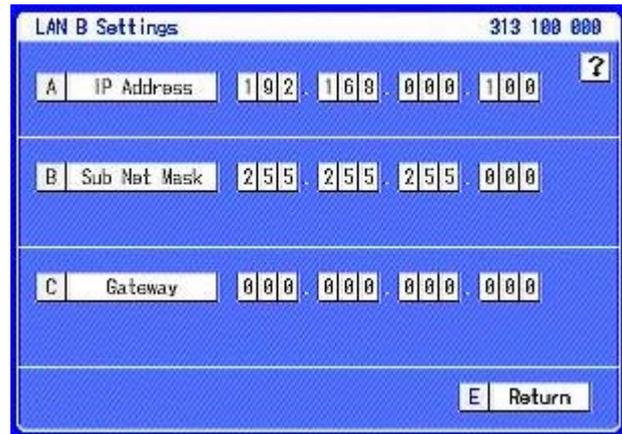
LAN B Settings – This is the setting used to setup the communication protocol between the DVR and your network.

1. Enter the STATIC IP Address, Sub Net Mask and Gateway of the DVR. Work with the IT Administrator, in charge of the network to get this information.
2. Service Ports – Leave at factory settings unless IT person wants to make changes to default settings.
3. E-Mail Address (Up to 5) Information – Use the application software PC55 or PC200 to make needed changes.
4. IP Alarm Notification Information – Same as above.

LAN B Settings



(313 000 000) Press 1 Settings



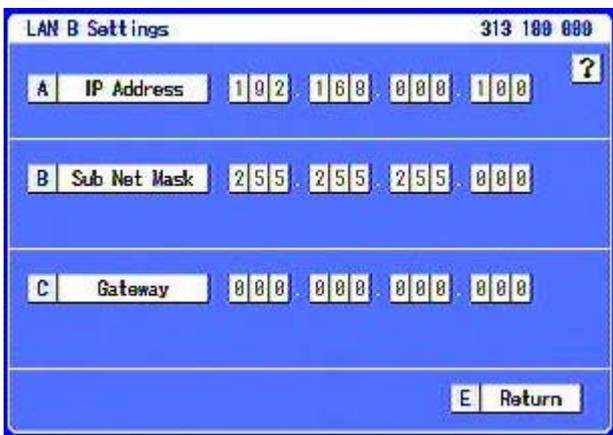
(313 100 000) The settings are Grey as they cant be changed while the DVR is Recording.

STOP Recocrding

To stop recording, press the REC/STOP button for more than 2 seconds.



- Recording stops and the light turns off



Options;

- A IP Address
- B Sub Net Mask
- C Gateway

Can now be changed.

NOTE: When you Exit this Menu the DX-TL5000E Reboots to implement the changes.

START Recording

Press the REC/STOP button.

- The REC/STOP button lights up and recording starts.



Remote connections and Network Bandwidth limits.

■ Number of connectable users

The number of users who can access one DX-TL5000E400/DX-TL5000E simultaneously is as follows:

Available operation	User of the Web server function built in DX-TL5000E400/DX-TL5000E	User of DX-PC55E
Viewing live images	10 users	5 users
Playback of recorded images	1 user (of 10 users)	3 users (of 5 users)
Playback of recorded images and other operations*	1 user (of 10 users)	1 user (of 5 users)

* For details about available operations, see the operation manual.

Up to 15 users in total (max 10 users of the built-in Web server function plus max 5 users of DX-PC55E) can access the recorder at the same time.

■ Bandwidth

The maximum network bandwidth used by DX-TL5000E400/DX-TL5000E is 15 Mbps.

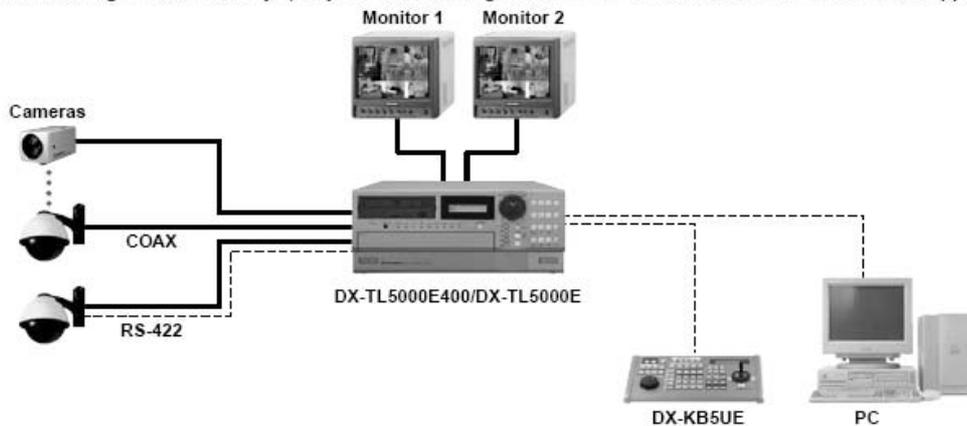
To restrict bandwidths, use "Access Mode Setup" of the Web server function.

PTZ CAMERAS

PTZ function providing various camera controls

PTZ camera control can be performed by not only the buttons on DX-TL5000E400/DX-TL5000E but also the attached PC viewing/communication software DX-PC55E and the optionally available keyboard DX-KB5UE.

* The PTZ function controls integral cameras only. (Only the cameras registered in DX-TL5000E400/DX-TL5000E are supported.)



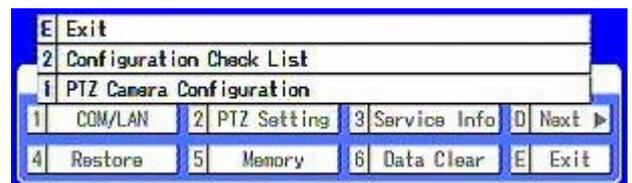
Enter the System Menu:

Press the **SET UP** Button on the front of the DVR

From the User Menu screen (**000 000 000**), press the **D NEXT** button twice to display the **SYSTEM MENU (300 000 000)**



(300 000 000) Press 2 **PTZ Setting**



Press 1 **PTZ Camera Configuration**

PTZ Configuration

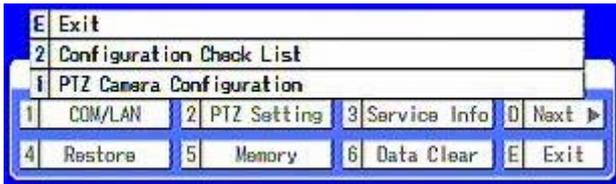
A variety of PTZ protocols are supported. Connect the camera's wires to the appropriate port on the back of the DVR. Match the camera protocol, baud rate and address settings with the DVR PTZ Configuration settings.

- 13. Camera Select – Choose camera number where the PTZ is connected
- A. PTZ Camera Config Device – Match protocol and baud rate of DVR and camera.
- B. Camera ID – Select camera address
- C and D – Select Pan and Tilt Reverse if needed.

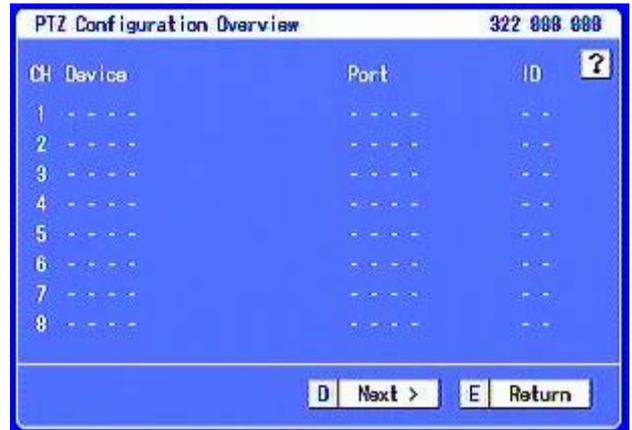


Press **E Return**

PTZ Configuration Overview



Press **2** Configuration Check List

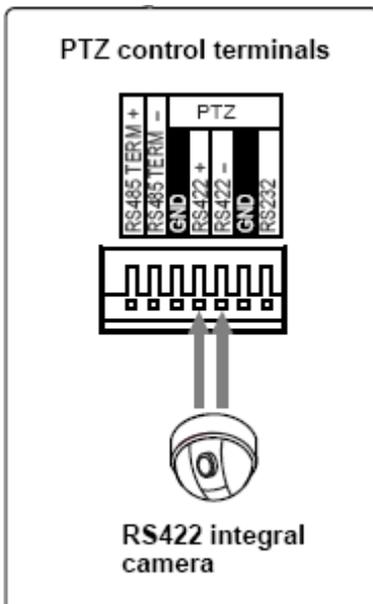


(322 000 000) Check the settings

Press **E** Return

Press **E** Exit twice to exit the SET UP menu.

PTZ Rear Connectors



Test (Front Panel Buttons) – Press the PTZ button and press pan and tilt buttons to move the camera.

See Page 50 of the DX-TL5000E installation manual.

If it does not respond confirm the settings of both DVR and camera.

Note: Pelco protocol is normally numbered 0 offset, camera numbering starts from "0". Camera 2 would have an address of 1.

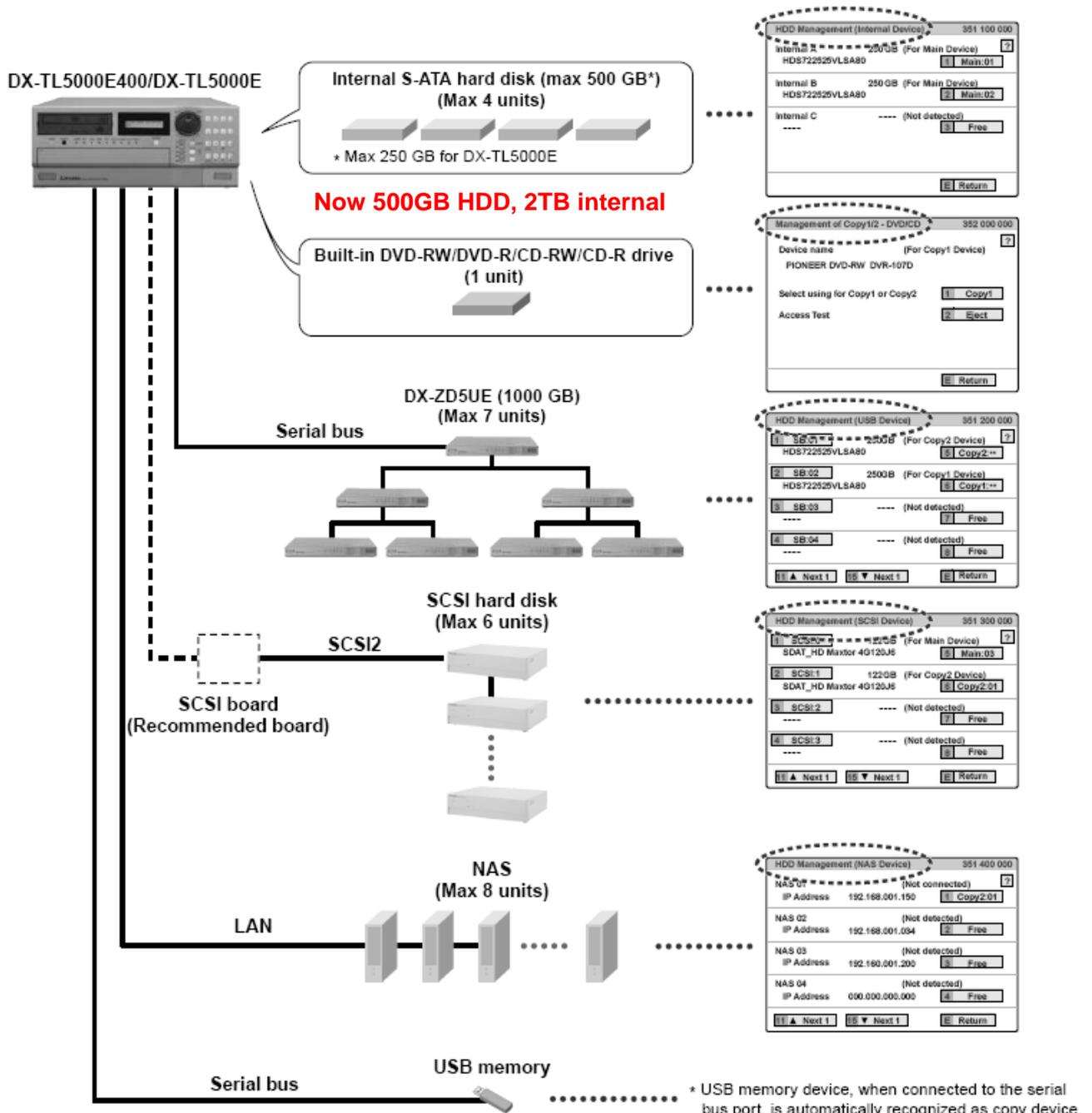
EXTERNAL Storage Features

Supporting various recording devices

You can perform recording or copying using the following recording devices.

Recording device		Number of units	Application	
			Recording	Copying
Internal	S-ATA hard disk	Max 4*1	<input type="radio"/>	<input type="radio"/>
	DVD-RW/DVD-R/CD-RW/CD-R drive	1	—	<input type="radio"/>
External	USB hard disk	Max 14	<input type="radio"/>	<input type="radio"/>
	SCSI hard disk*2	Max 6	<input type="radio"/>	<input type="radio"/>
	NAS	Max 8	—	<input type="radio"/>
	USB memory	1	—	<input type="radio"/>

- It is possible to group several hard disks and use them as one hard disk for continuous recording and playback.
- Set hard disks for recording as "Main" device and those for copying as "Copy 1" or "Copy 2" device.



Password Settings

To change the settings enter the System Menu:

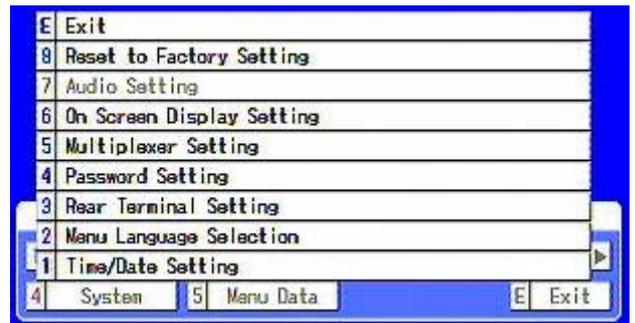
Press the **SET UP** Button on the front of the DVR

From the User Menu screen (**000 000 000**), press the **D NEXT** button to display the Setup Menu



(200 000 000) Press 4 System

Press 4 Password Setting



This unit is equipped with 2 lock functions:

SIMPLE LOCK: Does not require entering a password when unlocking.

PASSWORD LOCK: Requires entering a password when unlocking.

- When the password for unlocking is not set, lock function executes in SIMPLE LOCK.
- When the password for unlocking is set, lock function executes in PASSWORD LOCK.



(244 000 000)

SIMPLE LOCK

When SIMPLE LOCK is turned on, all the operations become inoperable and the unit is locked in the current mode.

- Activating the simple lock
- Releasing the simple lock

Press the LOCK button once while the MAIN switch is set to ON. The lock turns on and the LOCK indicator lights up.

Press the LOCK button for more than 2 seconds. The lock is released and the LOCK indicator turns off.

PASSWORD LOCK

There are 2 types of PASSWORD LOCK, "Operation control" and "Disk management."

"Operation control" has 3 levels of lock (level 1 to 3).

"Disk management" locks the settings of <Data Clear> for main device (System Menu Data Clear).

- Using "Operation control" of PASSWORD LOCK (level 1 to 3)

1) Input the PASSWORD of levels 1 to 3.

2) Press the **LOCK** button once to activate the **PASSWORD LOCK**.

- The PASSWORD LOCK of level 1 turns ON. **Level 1** turns ON; all the operations are locked except password lock release and help.
- The PASSWORD LOCK of level 2 turns ON. **Level 2** locks the following Buttons and menu other than mentioned below can be operated.
 - On the front of the unit: **POWER, REC/STOP, and TIMER** buttons
 - On the remote controller: **REC/STOP** and **TIMER ON/OFF** buttons
 - Menu operations of **Setup Menu** and **System Menu**

Releasing the PASSWORD LOCK (for the levels 1 and 2)

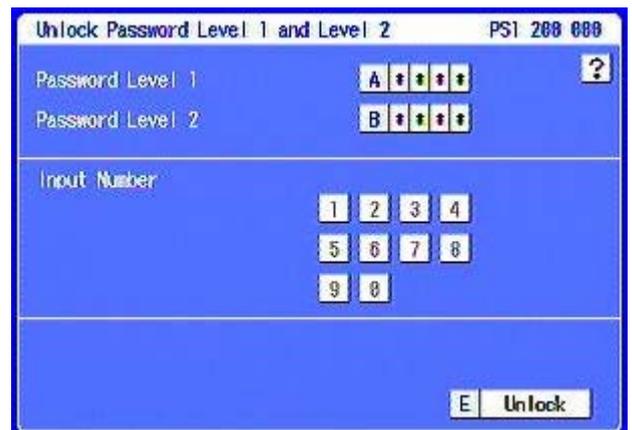
Press the **LOCK** button for more than 2 seconds to display the unlock password screen.

Input the password of the desired level by pressing the number buttons.

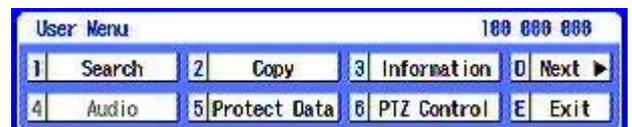
Press **E Unlock** The PASSWORD LOCK is released and the normal screen appears.

Releasing the PASSWORD LOCK (for the level 3)

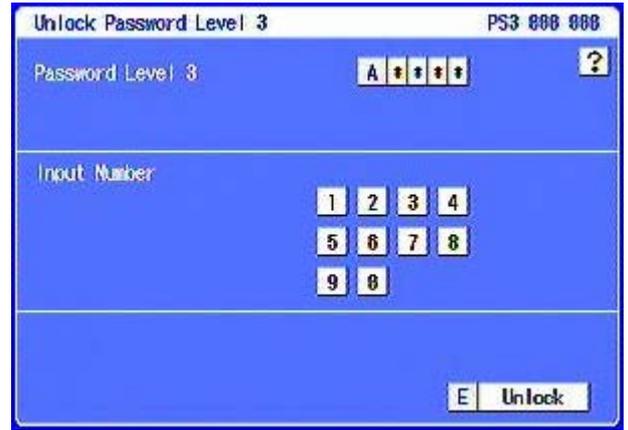
- Unlock Level 1 and 2 Passwords Press **E Unlock**



- Select Setup to display the User Menu Press **D Next**



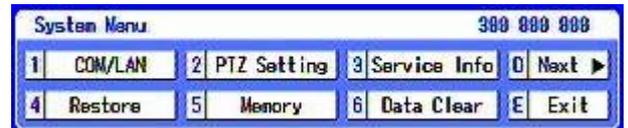
- The **Unlock Password Level 3** appears,
Press **A** enter the password.
Press **E** **Unlock**



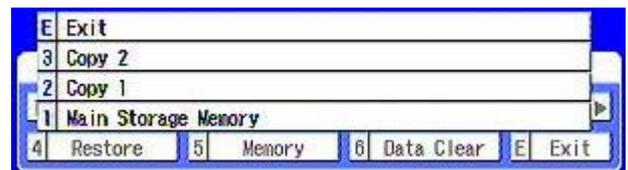
Disk management password

This feature adds a password to Memory Clear function (Deleting of recordings).

- In the System menu



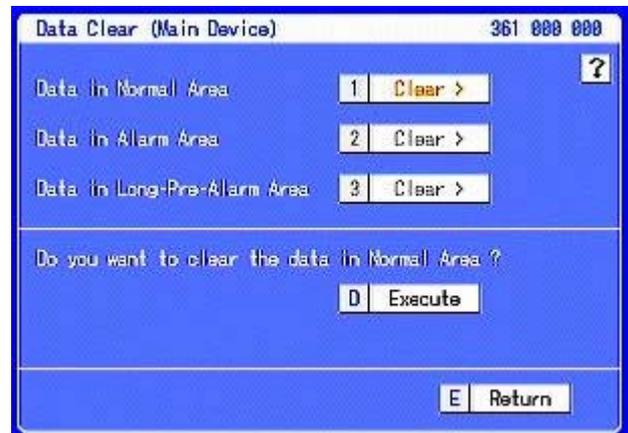
(300 000 000), Press **6** **Data Clear**



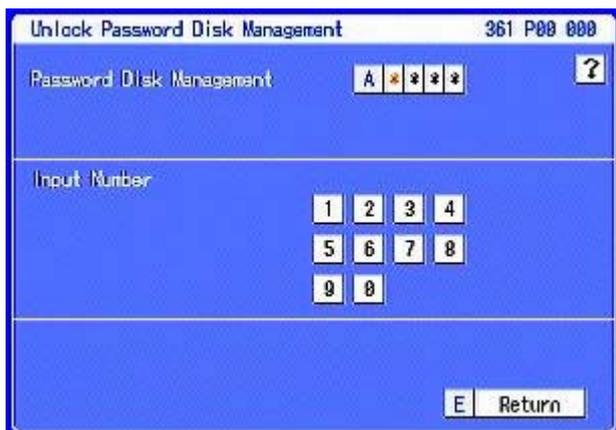
Press **1** **Main Storage Memory**



(361 000 000) Press **1** **Clear**.

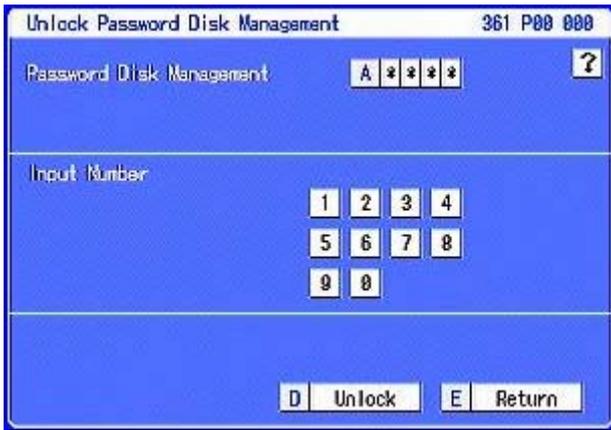


Press **D** **Execute**

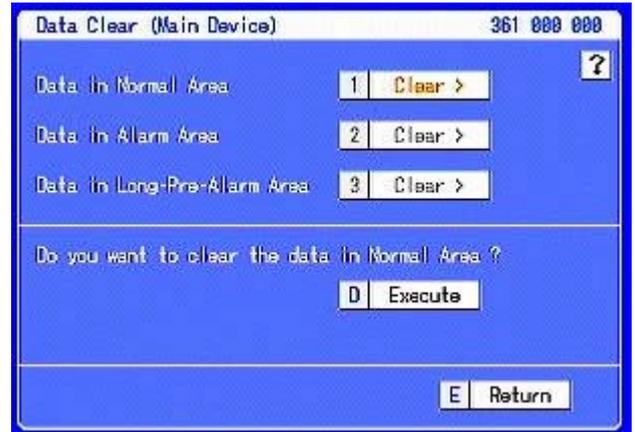


- The **Unlock Password Disk Management** screen appears
Input the **PASSWORD** of disk management

- Enter the password by pressing the number buttons.



Press D Unlock



• You can now Select D Execute to Delete the stored recording.

WARNING – clearing the MAIN STORAGE MEMORY will erase all recorded data.

Note: Data cannot be deleted while accessing to the HDD such as playback / recording / copying / restoring.

Multiplex Setting Overview

Single screen, split screen, sequential display

You can view live images and recorded images from the cameras in the following display modes.

■ Single screen display

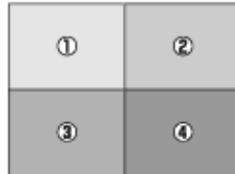
Image supplied from the designated camera is displayed.



■ 4-split screen display

Images supplied from four cameras designated by "Split 4 screen" are displayed.

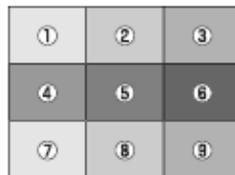
Example: Display when the cameras (1) to (4) are designated



■ 9-split screen display

Images supplied from nine cameras designated by "Split 9 screen" are displayed.

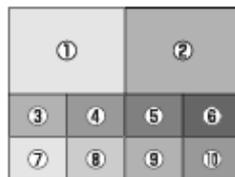
Example: Display when the cameras (1) to (9) are designated



■ 10-split screen display

Images supplied from 10 cameras designated by "Split 10 screen" are displayed.

Example: Display when the cameras (1) to (10) are designated



■ 13-split screen display

Images supplied from 13 cameras designated by "Split 13 screen" are displayed.

Example: Display when the cameras (1) to (13) are designated



■ 16-split screen display

Images supplied from 16 cameras designated by "Split 16 screen" are displayed.

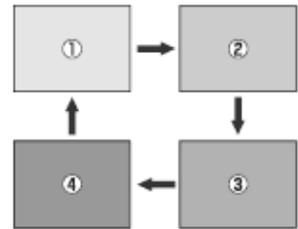
Example: Display when the cameras (1) to (16) are designated



■ Single screen sequential display

Images supplied from the cameras designated by "Sequence Single" are displayed sequentially, being switched at predetermined intervals.

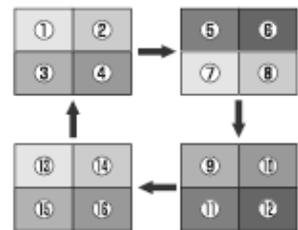
Example: Display when the cameras (1) to (4) are designated



■ 4-split sequential display

Images supplied from the cameras in groups designated by "Sequence Multi Split4" are displayed sequentially, being switched at predetermined intervals.

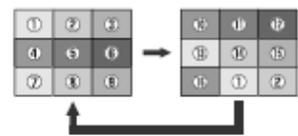
Example: Display when the groups of the cameras (1) to (4), (5) to (8), (9) to (12), and (13) to (16) are designated



■ 9-split sequential display

Images supplied from the cameras in groups designated by "Sequence Multi Split9" are displayed sequentially, being switched at predetermined intervals.

Example: Display when the groups of the cameras (1) to (9) and (10) to (16) (including (16) and (1)) are designated



■ 10-split sequential display

Images supplied from the cameras in groups designated by "Sequence Multi Split10" are displayed sequentially, being switched at predetermined intervals.

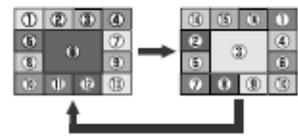
Example: Display when the groups of the cameras (1) to (10) and (11) to (16) (including (16) and (1) to (3)) are designated



■ 13-split sequential display

Images supplied from the cameras in groups designated by "Sequence Multi Split13" are displayed sequentially, being switched at predetermined intervals.

Example: Display when the groups of the cameras (1) to (13) and (14) to (16) (including (16) and (1) to (9)) are designated



Multiplexer Setting

The multiplexer function of this unit can display the connected cameras on 2 Monitor outputs.

Monitor A and Monitor B using split screens.

It is also possible to change the position of the camera number to be displayed in the SPLIT modes.

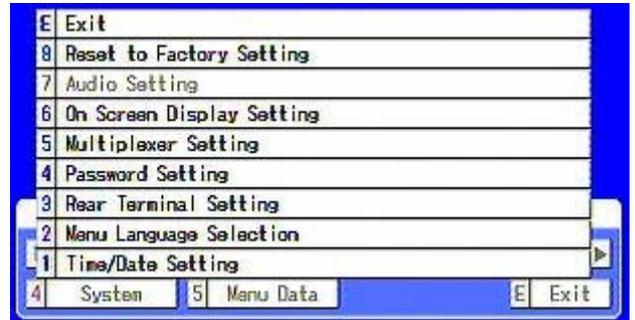
To change the settings enter the System Menu:

Press the **SET UP** Button on the front of the DVR

From the User Menu screen (**000 000 000**), press the **D NEXT** button to display the Setup Menu



(200 000 000) Press 4 System



Press 5 Multiplexer Settings

Alarm Display Setting

This item is used to display the picture input with alarm signal in the single screen display or split screen display which has been pre-set.

When another alarm signal is input during alarm recording, the picture with the latest alarm signal appears in the single screen display or split screen display.

The screen returns to the previous display when the alarm recording is completed.

The alarm display setting is available for either output A or B. Select the desired output for alarm display.

You cannot use alarm display on both output A and B at the same time.



(245 000 000) Press 4 Alarm Display Setting

Alarm recording display

Images from preselected cameras are displayed on a single or split screen when alarm recording starts.

Example

When "Output Setting" is set to "Output B" and the screen layout displayed upon input of a trigger signal to start alarm recording is set to 4-split screen containing images from the cameras 5, 6, 7, and 8:

During normal recording

[Monitor (OUTPUT A)]



[Monitor (OUTPUT B)]



When a trigger signal to start alarm recording is input ...

During alarm recording

[Monitor (OUTPUT A)]



[Monitor (OUTPUT B)]



4-split screen showing images from the cameras 5, 6, 7, and 8 appears, indicating the start of alarm recording.

Alarm Display Setting



A Select output A or output B.
Off: Does not perform alarm display.

Select the desired single screen display or split screen display which is set in the <Multiplexer Setting> to be displayed when the alarm signal present.

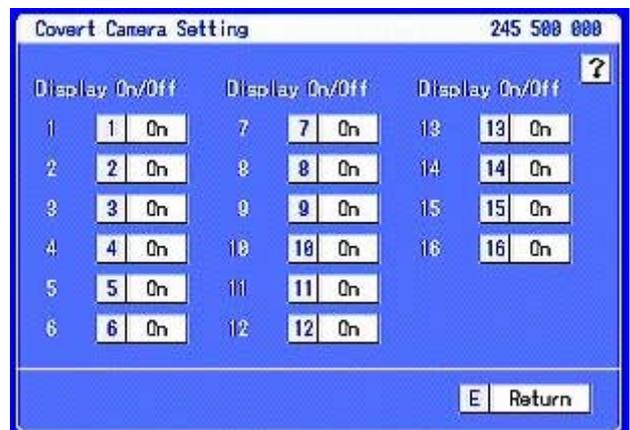
(245 400 000) Press 2 Multi 4b

Covert Camera Setting

- Covert Camera It is possible to hide pictures of selected cameras that are installed in sensitive areas and should only be viewed by authorized person.



(245 000 000) Press 5 Settings



These settings allow Authorized Personnel to turn the Covert Camera settings ON and OFF.

Menu Data (Saving Settings)

This menu is used to update and save the menu settings of this unit.

Save Settings

This is done by loading the menu settings which is copied from another DX-TL5000E via the external media such as USB memory, the DVD disc, or CD.

- During loading or saving the menu data, other operations are not accepted.

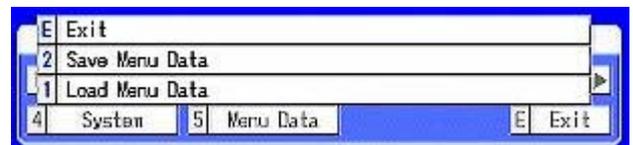
NOTE: IF THE DX-TL5000E HAS THE HDD PARTIONED FOR ALARM RECORDING manually copy these settings as they have to be set manually on the DXTL5000 when you use LOAD Settings.

Press the **SET UP** Button on the front of the DVR

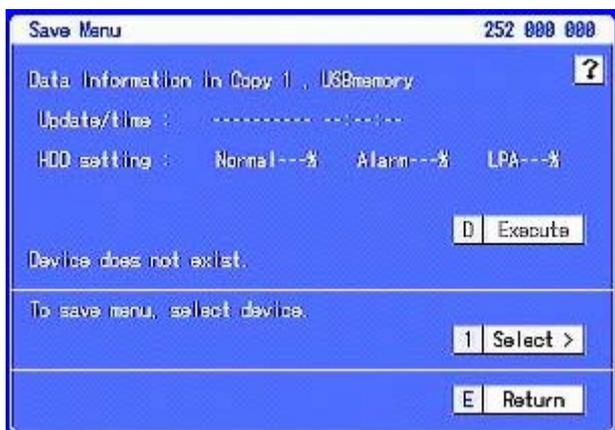
From the User Menu screen (000 000 000), press the **D NEXT** button to display the Setup Menu



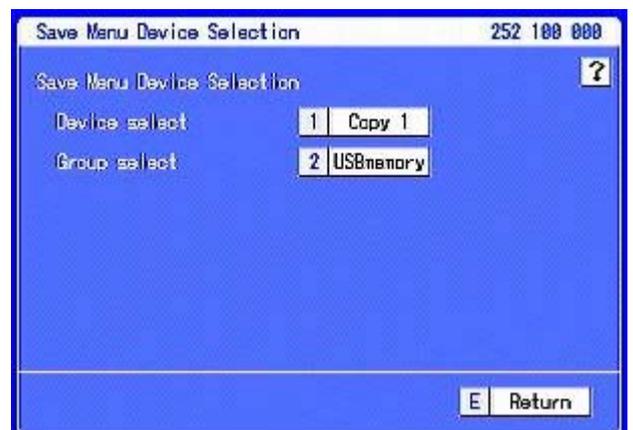
(200 000 000) Press 5 Menu Data



Press 2 Save Menu Data

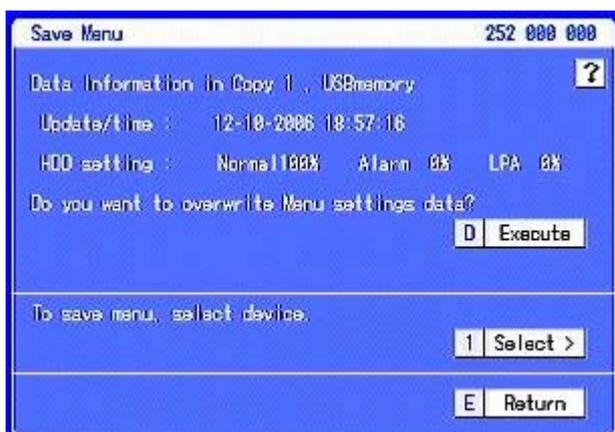


(252 000 000) Press 1 Select the device



For USB press 2 Press E Return

NOTE: YOU HAVE TO STOP RECORDING BEFORE YOU CAN EXECUTE



Press D Execute

The settings will be saved.

Press E Return and E Exit twice to Exit Set Up

Load Settings

This item is used to update the menu settings of the DX-TL5000E via settings copied to external media.

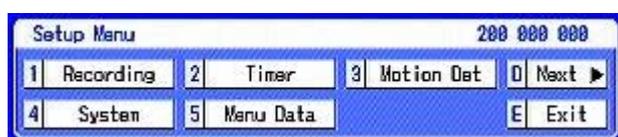
NOTE: To load or change the menu settings stored on the external media, set the HDD settings (partition setting) of this unit to the same settings as the recorder which has been used for copying the menu settings.

When these settings are different between this unit and the recorder which has been used for copying, the menu settings cannot be updated.

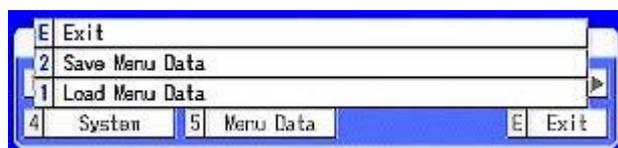
When loading settings with different Network A and B settings or a different language the POWER TURNS OFF AUTOMATICALLY and the DX-TL5000E Reboots.

Press the **SET UP** Button on the front of the DVR

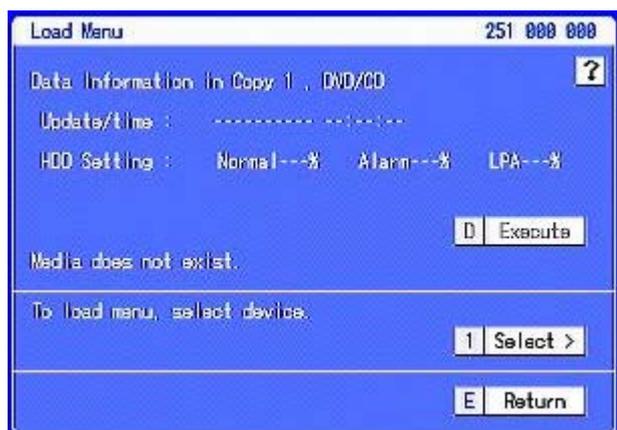
From the User Menu screen (000 000 000), press the **D NEXT** button to display the Setup Menu



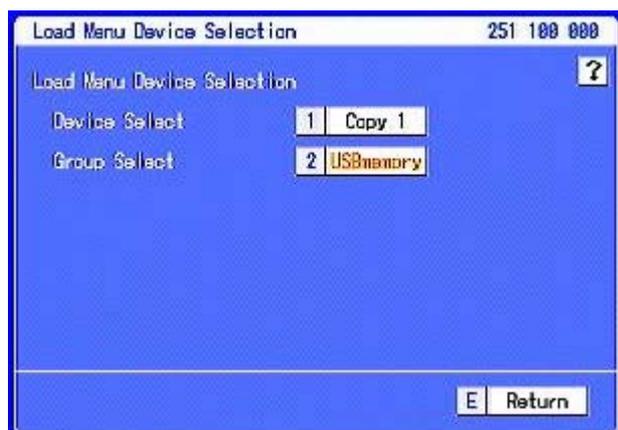
(200 000 000) Press 5 Menu Data



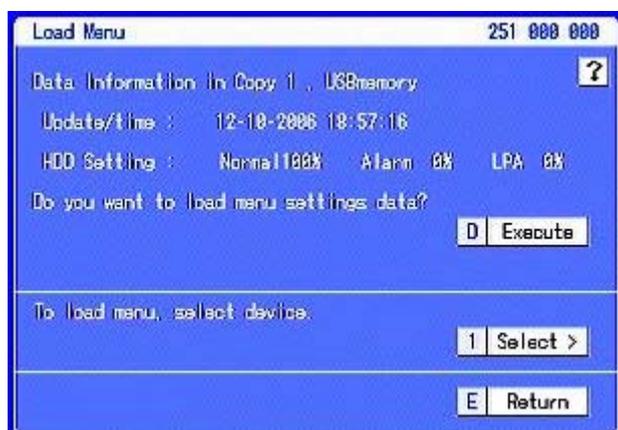
Press 1 Load Menu Data



(251 000 000) Press 1 Select the device



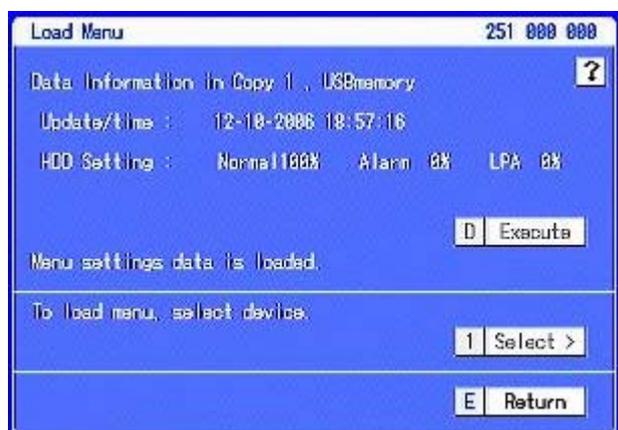
For USB press 2 Press E Return



(251 000 000)

NOTE: YOU HAVE TO STOP RECORDING BEFORE YOU CAN EXECUTE

Press D Execute



Menu Setting Data is loaded should be displayed

Press E Return and E Exit twice to Exit Set Up

Firmware Upgrade

The Firmware File extension is DAM, the current firmware version is DAM11178

Contact Mitsubishi Electric Australia for the latest version.

To Upgrade the firmware follow the instructions below;

1. Power down the unit.
2. Turn the power off completely, using the switch on the back.
3. On the front of the unit, press and hold the REC/STOP button.
4. Keep the button pressed, and turn on the unit using the switch at the back.
5. Keep holding the REC/STOP button until all the buttons on the front of the unit light up.
6. Release the REC/STOP button.
7. Eject the CD drive, and insert the CDROM containing the new firmware.
The firmware must be located in the root directory of the CD, and cannot be renamed to a different file name.
8. Close the drive, and press the REC button to start the upload process.
9. The firmware update file will upload, and takes approx 10mins.
Once it is complete, the unit will automatically restart.

The Firmware can also be loaded from a USB memory device have the file saved in the root directory, the file cannot be renamed to a different file name.

If the DVR can not detect a CD or DVD it will use the USB port on the front of the DX-TL5000E.
The firmware update will take about 3mins and the unit will automatically restart.

10. Press the POWER button to start the DX-TL5000E

11. **START Recording**

Press the REC/STOP button.

- The REC/STOP button lights up and recording starts.



DX-TL5000E Optional Parts

Options

HDD extension unit

DX-ZD5UE

Comprised of two 500 GB HDD.
(Separate ID numbers are required for two HDD.)



Keyboard

DX-KB5UE

Special keyboard for DX-TL5000E400/DX-TL5000E



Rack mount adaptor

DX-RM5

For DX-TL5000E400/DX-TL5000E

DX-RM5(ZD)

For DX-ZD5UE

Graphic card for XGA output

DX-GC5

Option board to output data to LCD monitor

Audio interface board

DX-SC5

Interface board for audio recording and playback

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