

MITSUBISHI DX-TL2500 Frequently Asked Questions

DX-TL2500

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1. What is a DX-TL2500?

a. The DX-TL2500 is a Digital Video Recorder (DVR) made by Mitsubishi for the CCTV market. The DVR has a built in 16 camera multiplexer and supports up to 16 camera inputs and looping outputs. The unit records up to 50 wavelet pictures per second (PPS) on 250GB of internal HD. The DVR has an imbedded operating system very similar to our analog VCR's, and uses a Jog/Shuttle for menu programming and special playback features. The DX-TL2500 supports independent regular and alarm recording of grade and PPS, supports timer rec., 2nd monitor out, many search functions and comes with 10BaseT network interface. The DVR comes with intelligent network applications software (DX-PC25 & NetHunter), supports a variety of copy and archive devices and its total HD space can be expanded to 12TB

2. Is there more than one DX-TL2500 model?

a. No, the DX-TL2500 is the only model available and it comes with 250GB, 500GB, 800GB or 1,200GB of HD space internally. Additional HD space can be added via the SCSI interface up to 12,000GB. In the same range Mitsubishi also have available the 4 channel DX-NT400E and the 9 channel DX-TL950.

3. Is the DX-TL2500 DVR duplex?

a. Yes, the DVR can Record and Playback at the same time. The unit can also REC., Play and copy or archive at the same time

4. How many cameras does the DX-TL2500 DVR support?

a. The DX-TL2500 supports up to 16 cameras, each camera input can be set to record unique settings of pictures per second (PPS) and or quality grade

5. How many pictures per second (PPS) can the DX-TL2500 record?

a. The DX-TL2500 can record up to 50pps. When only one channel is used, the DVR can record 25 PPS, when more than one channel is being used the DVR can record up to 50pps. The unit is intelligent and it does its own math calculating the most allowed PPS. Using the available overall 50pps and the number of cameras connected the DVR will assign the maximum allowed PPS per channel. For example if 10 cameras are being used (10 is divided into 50 PPS) giving a maximum 5 PPS per channel allowed. This number can be changed down (lowered but not raised).

6. Are the DX-TL2500 per channel PPS (Pictures Per Second) record settings and Quality Grade settings global or independent?

a. Each channel record settings of PPS and quality are independent from each other. They can be set the same but also they can be set independent.

7. What type of image compression does the DX-TL2500 uses and what are their file size

a. The DX-TL2500 records in wavelet format. The DVR supports 5 recording quality grades. Superior is the best quality and its file size per image is 42K, High is the second best and the image file size is 28K, Standard is 18K, Basic is 12K and the lowest quality grade is 6K. Remember that PPS and grade quality affect how long the DVR will record with its HDD capacity

8. Does the DX-TL2500 support audio recording?

a. Yes, the DX-TL2500 can record audio on one channel. Audio recording method is 8-bit - PCM, sample rate is 12.8KHz

9. Is the DX-TL2500 PC based or embedded operating system?

a. The DX-TL2500 is driven by an imbedded operating system which is very similar to that of a VCR. The unit's hardware is pre-programmed to support its various functions

10. Does the DX-TL2500 support Auto Daylight Savings time?

a. Yes, the unit supports Auto Daylights settings. The settings can be turned On or Off.

11. Can I name each cameras input of the DX-TL2500?

a. Yes, up to 16 characters (lower and upper case) are supported per input. The screen display pattern will affect how many characters are displayed, for example in a 16 display pattern only the first 3 characters will be displayed, but when you select a single screen all 16 character are displayed.

12. In the Time and Date/Display Settings menu, what is Duplex Mode display?

a. The DX-TL2500 main screen can display its current operation status like REC, PLAY if the unit is in the record and play mode. In the Setup Menu Display Settings there is a Duplex Mode Display, this feature enables the Main Screen Monitor to display the current operation of the DVR. Bottom will display the REC PLAY at the bottom of the main monitor screen and TOP will display the information at the top, NONE will not display anything.

13. Does the DX-TL2500 support 2nd/Spot monitor output?

a. Yes, the second (spot) monitor output is fully programmable. The Spot monitor output is for live display only

14. What kind of Alarm triggering is supported by the DX-TL2500 to generate an alarm and can I specify more than one camera to record when an alarm occurs?

a. The DX-TL2500 supports two types of Alarm trigger, Motion (per input) or External via the rear terminals (grounding the normally open terminals to generate the alarm). The DVR also supports a combination of these two, for example MD/EX (Motion or External contact will generate the alarm), MD&EX (motion and external terminal will generate the alarm). These settings are found in the RECORD SETTING/ALARM SETTING MENU where you can also specify the specific camera or cameras to record when an alarm is triggered

b. Also, programming the RECORD SETTING enables you to specify the regular and alarm record settings. If a specific camera or cameras are only needed to record during an alarm then selecting ALARM (not ALARM PLUS), from the RECORD SETTING MENU is required, also enable the specific camera input by allocating the number of PPS (Pictures Per

Second) and REC GRADE associated with that input. Be sure to activate appropriately the triggering method (RECORD/ALARM SETTING, MD or EX or combination) for the specific channel

15. Is Motion Detection easy to program and test on the DX-TL2500?

a. Yes, the MOTION DETECTION SETTINGS enables you to Select the camera number (1-16), set the mask settings (set active area), sensitivity level (reaction to change in light) and motion threshold (how many pixels within the mask setting are needed to trigger an alarm). TEST MODE is provided so that you can test the above settings, you can always go back and change and re-test.

16. What type of REC. quality settings are supported by the DX-TL2500

a. The DX-TL2500 supports 5 recording quality grades (SUPERIOR = 42K, HIGH = 28K, STD = 18K, BASIC = 12K, LONG = 6K). The image resolution is 684X240 in all grades. Each input can be set independent of each other, for example camera 1 can be set to record in STD, camera two can be set to record in HIGH and camera three can be set to record in BASIC

17. Does the DX-TL2500 support global or independent recording?

a. The DX-TL2500 supports both, global record settings where all of the camera inputs are set the same and or independent record settings where each camera input can have unique record PPS and picture grade quality. Both conditions are true for regular and alarm recording. Both functions are setup in RECORD SETTINGS. When specifying the PPS, the recorder uses the over all number of cameras connected and activated. This number is divided into 50 (overall PPS supported by the DVR), the result is the maximum number of PPS per camera that can be selected to record. For example: DX-TL2500 with 10 cameras connected and activated $10/50=5$ (5pps is the maximum) is the number of PPS that any one camera can be set to. Each camera can be set for less PPS (1pps) but not more than six

18. Does the DX-TL2500 support LAN/Remote access?

a. Yes, the DX-TL2500 comes with an Ethernet 10Base-T port built in. The DVR uses a STATIC IP address to communicate in a network environment. Two connection methods are supported, DX-PC25 application software or via web browser. The DVR does not support DHCP, only static IP address

19. Is the LAN connection for the DX-TL2500 via Application software or is it web browser based?

a. Both, the DX-TL2500 comes with the DX-PC25 & NetHunter software applications. These software packages are very powerful, they enable you to control PTZ cameras, copy clips of pre-recorded video to your PC's hard disk, program the DVR from a remote site and even upgrade the DVR internal firmware when applicable. The web browser is less sophisticated, live or playback but it is not as powerful as the DX-PC25 or NetHunter software.

20. How many users can connect via LAN to the DX-TL2500 at one time?

a. Up to 5 users can connect at one time to the DX-TL2500 using the DX-PC25 or NetHunter software. Up to 10 people can connect to the DX-TL2500 via a web browser

21. What kind of PASSWORD PROTECTION is supported and how many levels are available?

a. Two types are available with each having its own levels. There is password protection at the unit with password lock; this feature has three levels where each level provides specific access rights. This password type is set by entering a 4 digit code via the unit's front panel.

b. There is also network password level access via the LAN. UserID and password must be entered before access to the DX-TL2500 is provided. This is true for the application software and the web browser. The systems administrator of Super User assigns the user names and passwords along with what kind of access and control each user has. For example, the Super User has full control (programming, all cameras, REC/PLAY BACK and more, where other users can be set to Live View only, or Playback Live View, and more

22. What kind of functions does the DX-TL2500 support via the network?

a. Two types of network connections are supported, one using the DX-PC25 or NetHunter application software and the second via web browser. The application software provides full control of the DVR, also programming, control of PTZ cameras, covert cameras, downloading specific clips of video, using search functions for regular video or alarms and much more. The web browser is more limited, live or playback of recorded video is supported, no PTZ control, programming of the unit or down loading of video to your host PC is supported.

23. How many PC's can I load the DX-PC25 or NetHunter application software? Is it limited by a license agreement?

a. The DX-PC25 & NetHunter software has no license fee and it can be loaded on to as many PC's as needed

24. Can I control more than one DX-TL2500 with the same software?

a. Yes, each DVR must have a unique IP address. When connecting to more than one DVR, open the DX-PC25 software each time for each unit you will be connecting to. NetHunter has many new features for dealing with multiple Mitsubishi DVRs from the new range including the DX-NT400E, DX-TL950E & DX-TL2500E systems.

25. How many pictures per second can be transferred over the network?

a. The application software can transfer 8pps in live and 6pps in playback.

26. What kind of Copy and Archive Devices are supported by the DX-TL2500?

A variety of SCSI devices are supported by the DX-TL2500. Hard Disk Drives can be added to expand the recording capacity. For achieving the unit supports Hard Disk Drives, DVD -RAM, DDS-2 and 3 drives and for coping the DVR supports CD/RW, 250MB Zip drives and CFC cards. Only the CFC and CD will playback from a PC with DX-PC25or NetHunter software.

27. Does the DX-TL2500 support additional Hard Disk storage?

a. Yes, the DX-TL2500 has a SCSI-2 port on the back were additional external storage can be added. The DVR supports up to 4 additional drives and each can be up to 2 Tera Byte. Also, if ID #4 and #5 which are normally used for archive and copy devices can also be used for additional storage for a total of 12Tera Byte. More information on these devices are found in the Technical Document section of this web site (see DX-TL Add-on Peripherals).

28. Does the DX-TL2500 support dial-up connection?

a. Yes, you must use a Dial-up Router. We can supply these if required.

29. How much network bandwidth does the DX-TL2500 take-up when transferring video over the network?

a. The DX-TL2500 uses less than 5% of the 10 Mega Bytes available from the 10Base-T pipeline. This includes video and packet header information. For example if the highest image quality is 42K and the DVR transfers 8fps of live video the total bandwidth for video only is 336K

30. Does the DX-TL2500 support watermark for digital verification?

a. Yes, watermark inscription is a part of each image recorded. This watermark can be checked by activating the IM check (in the HDD SETTINGS menu). If the image has been modified, the DVR will provide a warning "Image Modified" on the playback screen. To perform the image validation, the video clip must be played back by a DX-TL2500 DVR. This is also holds true if the image is played back via the DX-TL2500 from a copy or archive device

31. Does the DX-TL2500 support covert cameras, if YES, how many?

a. Yes, the DX-TL2500 supports covert cameras. Any and all of the 16 cameras can be set for covert operations. Viewing of covert cameras is protected by password requirement

32. What is the CFC slot on the DX-TL2500 used for?

a. The DX-TL2500 supports CFC memory cards from 8MB to 512MB. The purpose of the CFC is to copy video or alarms, to download and upload the DVR's configuration once it's been programmed and also to upgrade the internal unit's firmware.

33. Can I partition the Hard Disk Space on my DX-TL2500?

a. Yes, you can partition the available drive space from 10% to 90%. When the drive is partitioned, alarms recorded are stored in the sub-partitioned. When performing an alarm search function you must first select the sub-partition otherwise the alarm will not be found.

34. Can I erase all information on my Hard Drive except for the alarm?

a. Yes, when the DX-TL2500 HDD are partitioned, you can select which portion (main for regular recording and sub for alarm recording) needs to be erased. This feature is found in the INFORMATION/SERVICE menu.

35. Does the DX-TL2500 send warning message or email message via the network when an alarm occurs?

a. Yes, the DX-TL2500 sends out a warning message to a specified IP address when an alarm occurs, signal is lost from a camera that is to be recording, when the unit goes into record mode plus many more functions. The same is true for email notification, the notification message will inform of the type of problem detected and will provide the DVR's name and IP address.

36. Can I save a clip of video recorded on my DX-TL2500 to my PC via the network?

a. Yes, using the DX-PC25 or NetHunter software you can save a clip of video, you can specify the time and date and camera or cameras that you want to save along with the folder on your PC to save the video.

37. Does the DX-TL2500 support audio playback via the network?

a. No, audio is only played back from the DVR.

38. What kind of search functions does the DX-TL2500 support?

a. The DX-TL2500 supports the following search functions, Alarm List, Time and Date, Alarm Index, Skip Search

39. How do I know if the DX-TL2500 is being accessed by a remote user?

a. Monitor A (main monitor) in live mode will display "NET" when a network connection has been established.

40. Can I playback copied video on my PC that I copied from the DX-TL2500?

a. Yes, video saved to a CD or CFC can be played back from your PC as long as you have the hardware and media available for your PC. Video saved to DDS or DVD-RAM must be played back from a DVR