



# MITSUBISHI IP (Security Products)

## Field Information Notice

FIN #: 005	Rev. B Page 1/11
Date: 6/24/03	
Product: DX-TL2500U	
Subject: Firmware upgrade instructions	
Target Audience: Sales/Dealers/User	
Originator: Hon Yu (949) 465-6436	
www.mitsubishi-imaging.com	

### GENERAL INFORMATION:

DX-TL2500 provides two easy ways to upgrade its firmware. User can save the firmware file on a Compact Flash Card and upload it directly from the DX-TL2500U front panel. It can also be done via a TCP/IP network with the DX-PC25U software installed on a network client computer. Using the Compact Flash Card is the most simple and reliable way to do the upgrade. However the network method provides the convenience for upgrading from remote and an alternative way in lieu of a Compact Flash Card.

### I. Upgrade from a CFC (Compact Flash Card):

Before upgrade the firmware always remember to save the current configuration otherwise it will be lost.

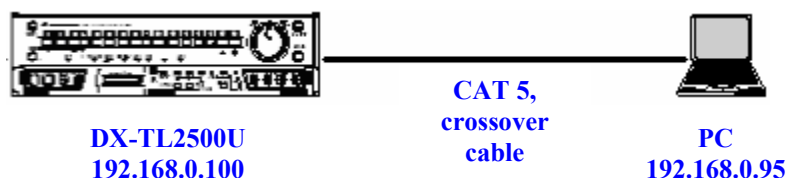
1. Copy the firmware file to a CFC. Usually the file should have an extension of **FW**, such as **CB01042.FW**
2. Insert the CFC to the front panel of the DX-TL2500U
3. Turn the **MAIN** power switch (at the back of the DX-TL2500U) to the **ON** position.
4. Press and hold both the **SPLIT/SEQUENCE** and the **ZOOM** buttons then push the **POWER** button located at the front lower left corner. (So that these three buttons are pressed together)
5. Wait for the system to load from the CFC. Verify the firmware revision on the CFC is the one you want to upgrade. LEDs of **REC/STOP**, **ARCHIVE**, **PLAY(+)**, **REV. PLAY(-)**, **PAUSE/SHUTTLE HOLD**, **PLAY DEVICE (MAIN, ARCHIVE, COPY)**, **ALARM INTERRUPT**, **COPY**, **CFC**, **POWER**, **OUTPUT B**, **TIMER**, **PRE ALARM**, **M-DET**, **EMERGENCY** and **LOCK** are all on.
6. Press the **CH3** button to start the upgrade process. After about 20 seconds the above LEDs went off and **REC/STOP**, **ARCHIVE**, **SPLIT/SEQUENCE**, **ZOOM**, **CH1** and **POWER** turned on. The channel lights indicate the percentage of the completion. When it reaches **CH6** (it varies depend on the size of the firmware) all LEDs went off which signaled the completion of the firmware upgrade.

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7. Press and hold both the **PLAY(+)** and **REV.PLAY(-)** buttons then push the **POWER** button located at the front lower left corner. (So that these three buttons are pressed together)
8. Press and hold both the **ALARM INTERRUPT** and **COPY** buttons down until you hear “du”, “DEE”, “du”, “Di” then release both buttons.
9. Press the **STOP** button (next to the PAUSE/SHUTTLE HOLD button) and the power goes off.
10. Press the **POWER** button at the lower left corner to start the menu settings. You can use **<QUICK SETTINGS>** option or the DX-PC25 software to load the previously saved configuration back to the recorder.
11. Now the recorder should be back to normal.

## II. Upgrade via a TCP/IP network:

The network connection must be established before upgrading through the network. To achieve that you can either set the IP address, SUBNET MASK and GATEWAY on the DX-TL2500U to match the scheme of your network. Or you can configure a stand alone computer to match the DX-TL2500U. For simplicity I will illustrate the stand alone configuration since you can use the exact IP addresses to follow my instructions.

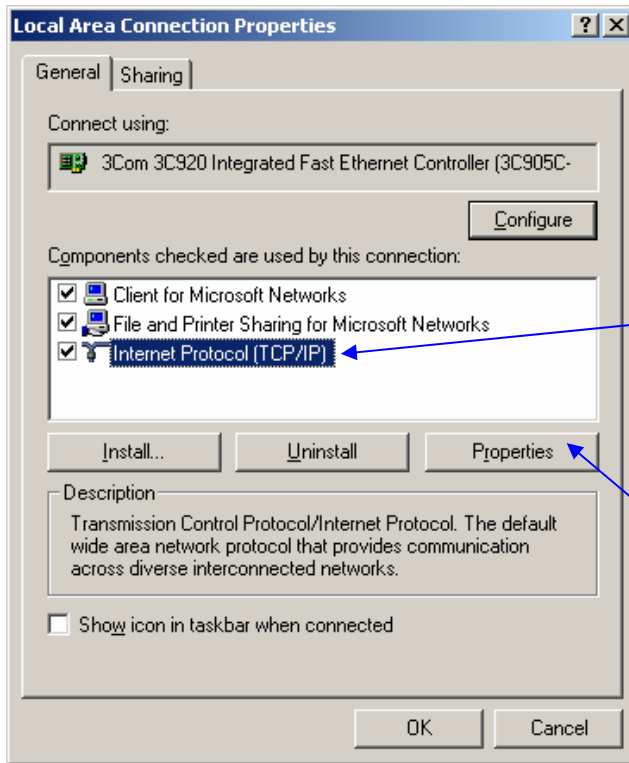


1. Connect the DX-TL2500U and PC with a CAT 5, **crossover** cable. If you are using a Hub or router then use a **straight** cable.
2. Install the DX-PC25U software on the computer used for the firmware upgrade.
3. From the Windows Desktop, select

**Start → Settings → Control Panel → Network and Dial-up connections**

Right click “**Local Area Connection**”, select “**Properties**”

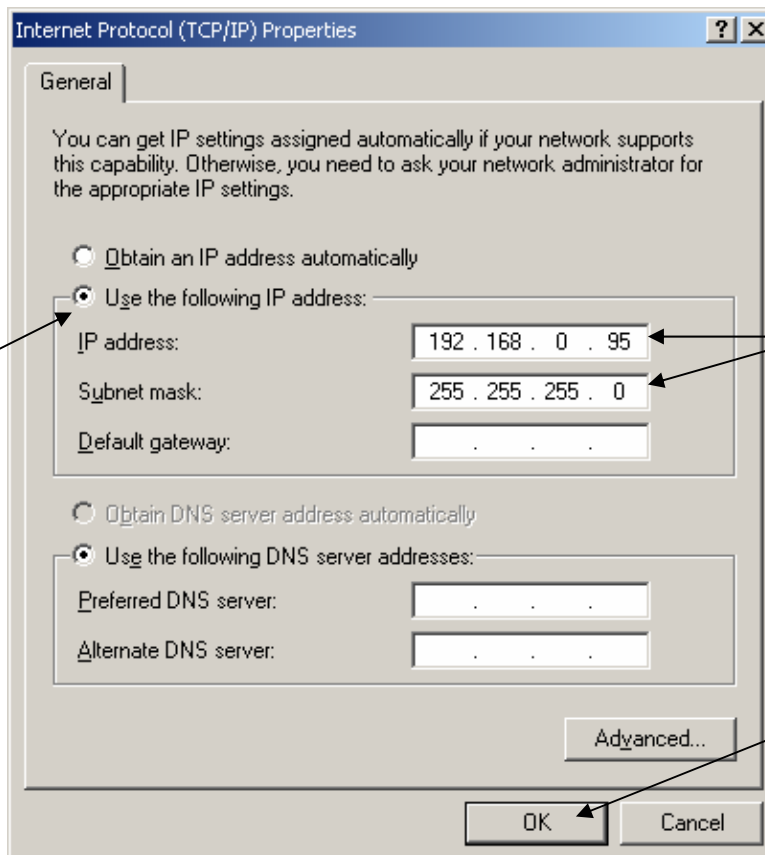
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**select Internet Protocol (TCP/IP)**

**If you don't see this option then you can click the "Install..." button below, then "Protocol" → "Add..." → "Microsoft" → Internet Protocol(TCP/IP)**

**Then select Properties**



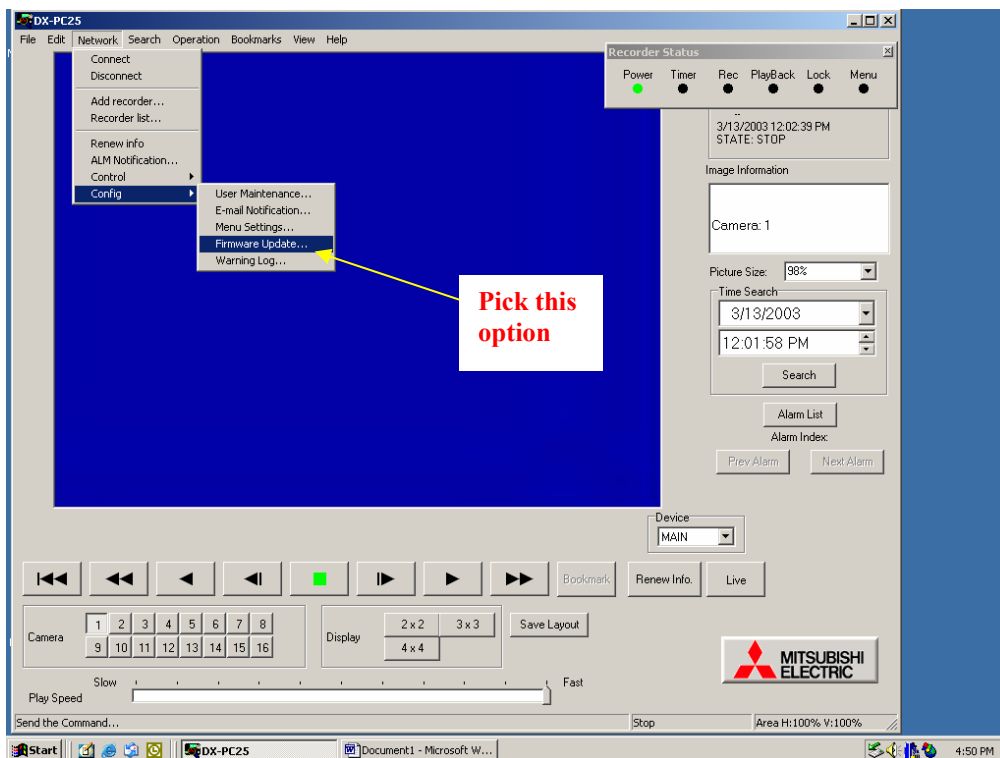
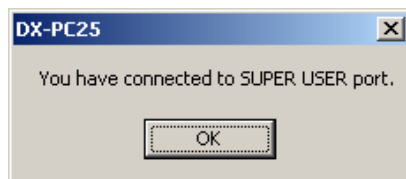
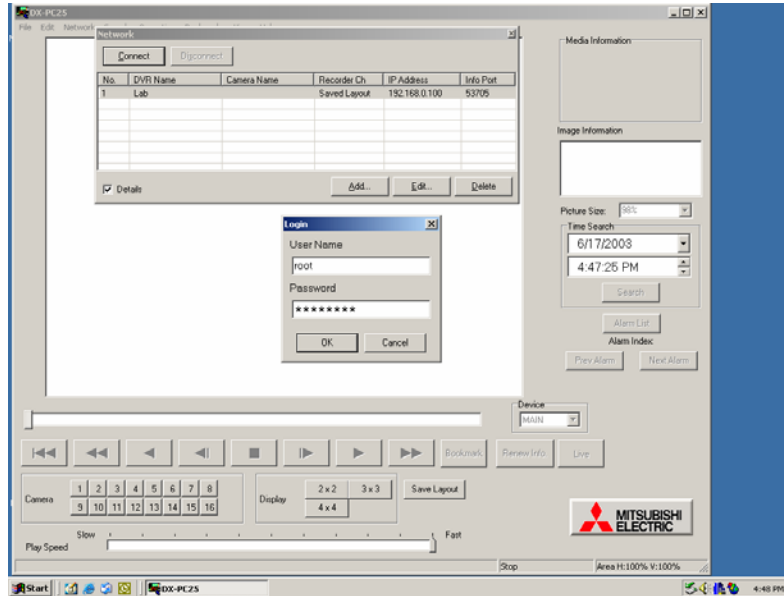
**Pick this option**


**Set the value as shown**

**select OK then reboot the computer**

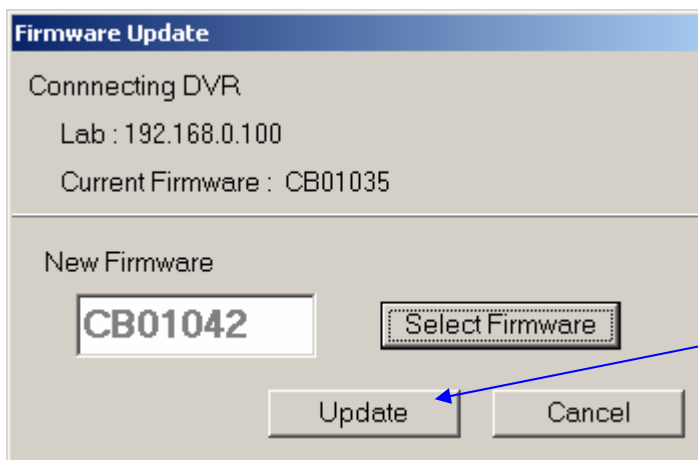
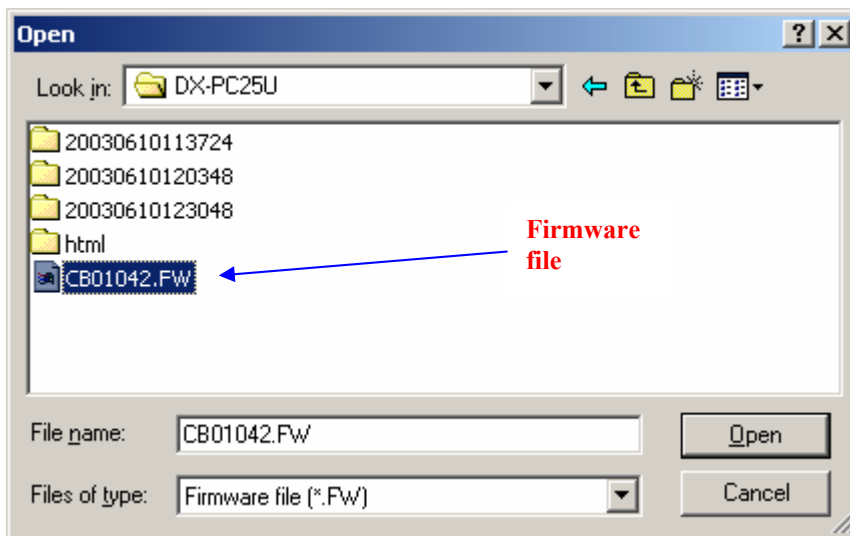
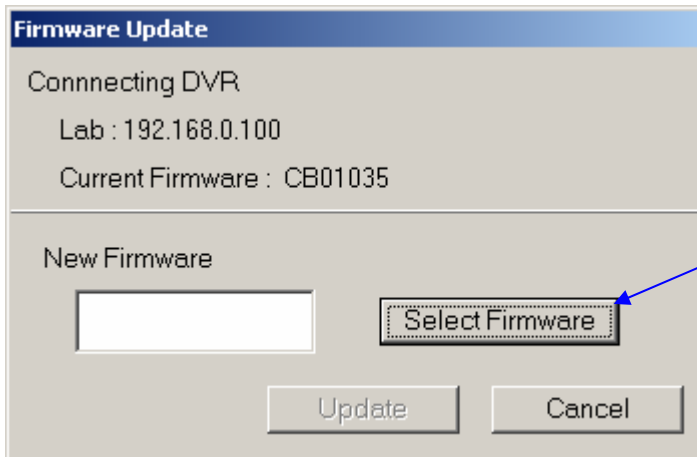
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4. Reboot your computer.
5. Run the DX-PC25U software (DXPC.exe) and login as a “root” (administrator privilege)

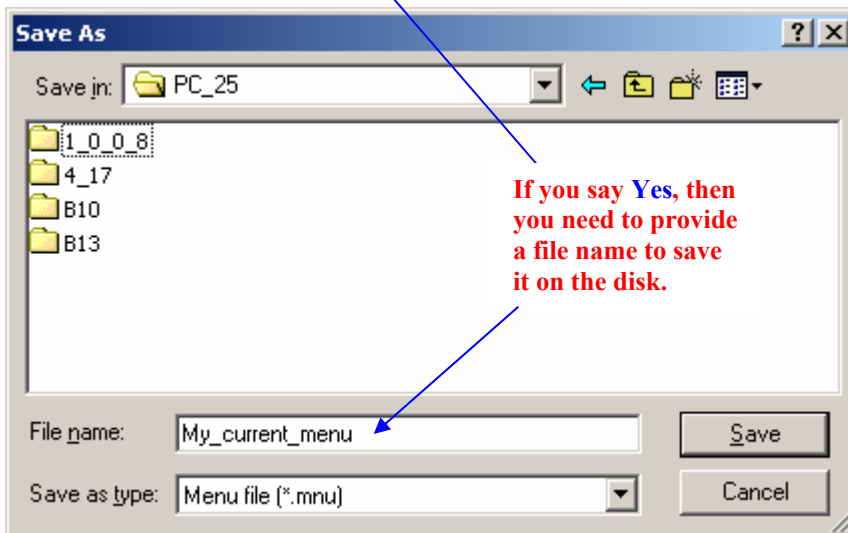
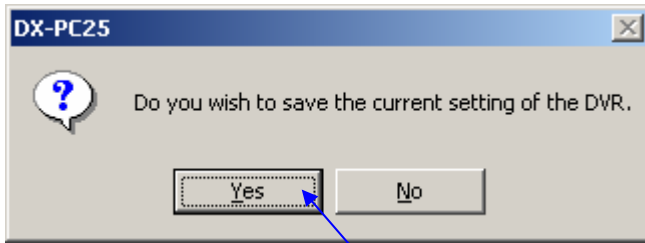
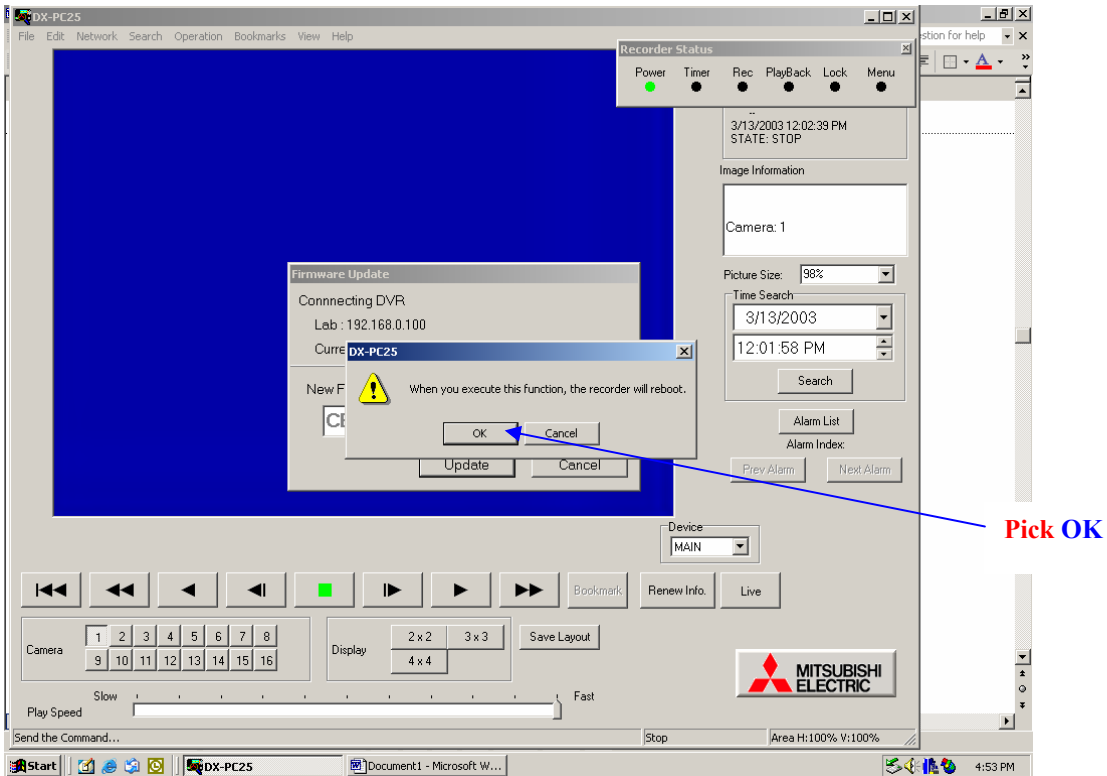




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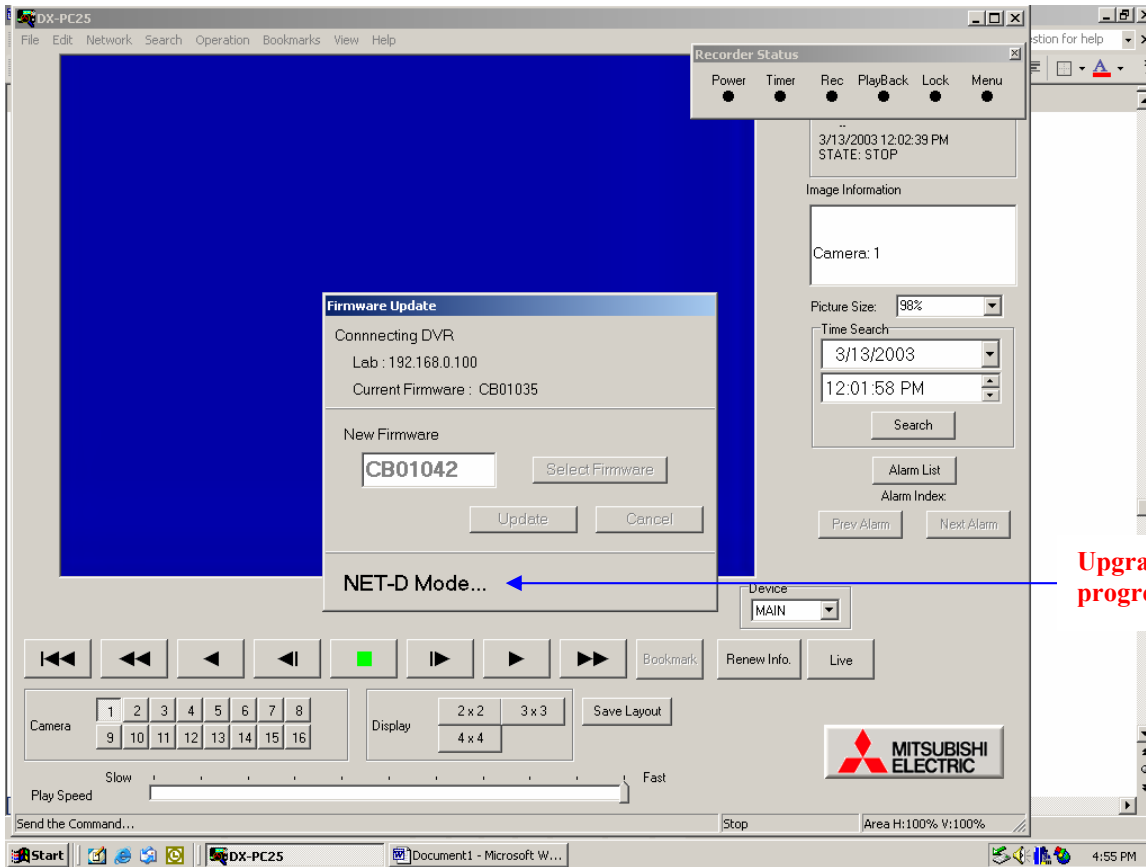


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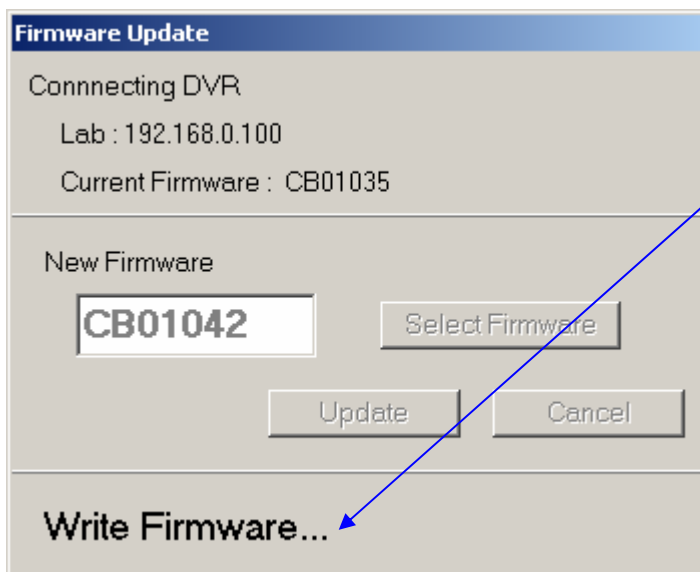





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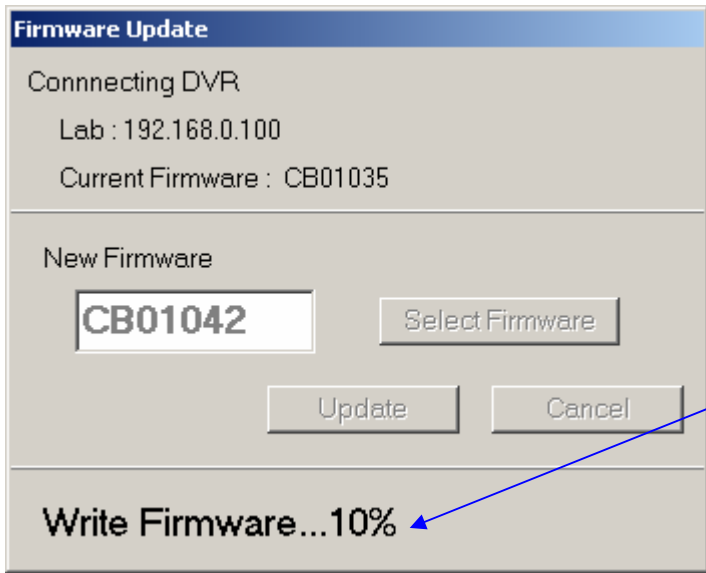
Upgrade in progress



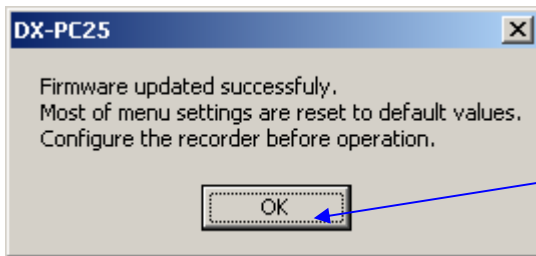
All 16 channel LEDs start blinking.  
Then SPLIT/SEQUENCE, ZOOM, REC/STOP, ARCHIVE, CH1 and POWER LEDs are ON



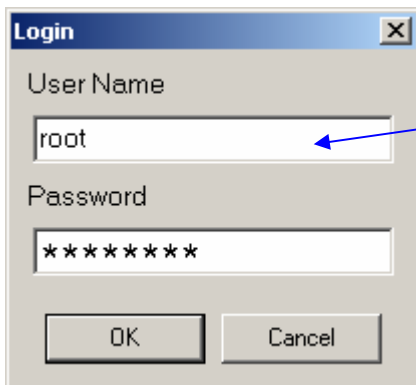
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As upgrade progress additional channel LEDs will be turned ON. When it finished, all LEDs come ON then OFF.

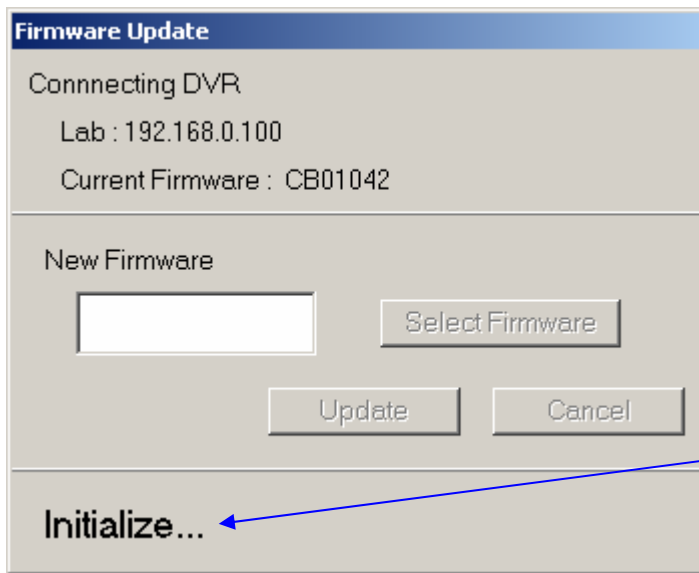


Select OK



Login to the DX-TL2500U

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**If after 30 seconds the front POWER LED is not ON then push the POWER button manually and try login again. After it finished the initialization you can reload your previously saved menu settings back to the recorder.**

### III. Disaster recovery procedure:

During the firmware upgrade, a power failure, loose network cable or any outside factors that interrupted the process before the completion, will corrupt the firmware. The recorder is no longer in operation until an operative firmware reloads back into the recorder. The symptom of a firmware corruption will be indicated by the pattern of the LEDs. The recorder will illuminate 18 LEDs at the same time. They are,

**POWER, CFC, COPY, ALARM INTERRUPT, PLAY DEVICE (MAIN, ARCHIVE, COPY), PAUSE/SHUTTLE HOLD, REV. PLAY(-), PLAY(+), REC/STOP, ARCHIVE, TIMER, PRE ALARM, M-DET, EMERGENCY, COM, and LOCK.**

The recorder is in “RECOVERY SYSTEM” mode now. It is waiting for the user to upload the firmware from the Compact Flash Card. Unfortunately the Ethernet port is disabled. User CANNOT re-establish the communication through the Ethernet port. The following procedure will allow you to recover the recorder without a monitor attached.

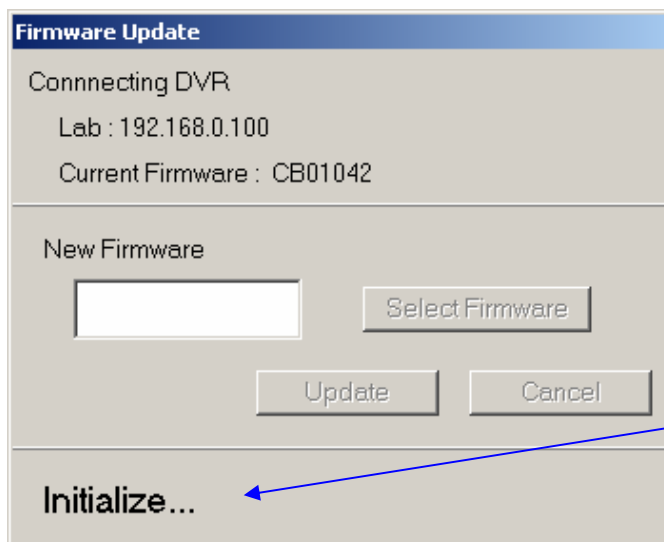
1. Copy an operative firmware to a CFC. You can find the firmware in the directory where you installed the DX-PC25 software. Normally it is installed under

**C:\Program Files\DX-PC25\CB01042.FW**

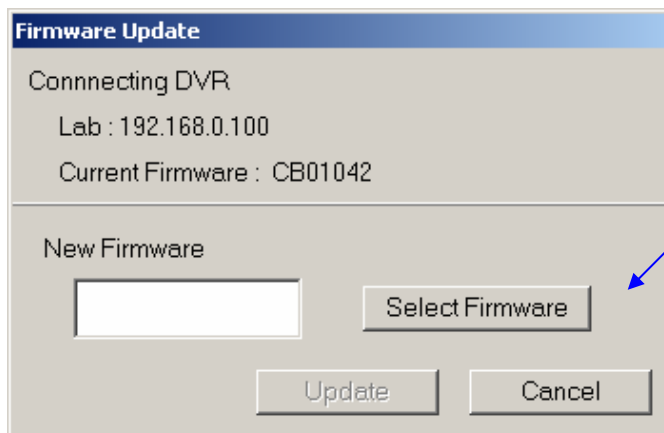
2. Insert the CFC to the front panel of the DX-TL2500U

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3. Turn the **MAIN** power switch (at the back of the DX-TL2500U) to the **ON** position.
4. Press the **ZOOM** buttons. If you don't have a monitor to see the status of the recorder then you need to give time to the recorder to load and verify the firmware file on the CFC. Please **wait 30 seconds** before proceeding to the next step.
5. Press CH3 button. You will hear a beep then all of illuminated LEDs start blinking very fast. It is burning the new firmware onto the recorder now.
6. Wait a couple of minutes until all of the LEDs stopped blinking and go off at the same time. Now try reconnect the recorder back through Ethernet port from the DX-PC25 software (login as a "root").
7. You should see the following menu in DX-PC25



**You should see this.**



**When you see this menu the front **POWER LED** should stop blinking. If it doesn't then you need to continue on step #8. Otherwise stop here your recorder is back to normal.**



8. Blinking **POWER** LED indicates the recorder is in “operational transition” mode. Even though you can connect the DX-PC25 through the Ethernet port but the recorder can neither accept any operational commands (such as PLAY..) nor upload the menu settings from your PC.

Turn the **JOG dial clockwise twice** (hear two clicks) then rotate the **SHUTTLE ring clockwise once** (to select the **Power Off Initialization**). The recorder will go off.

9. Push the front **POWER** button to turn on the recorder. Now the recorder is back to normal. You can use any commands from your PC after connected through the network.