

9000DP Firmware Update Procedure

Requirements:

- PC with available communications port. The communication speed requirement is relatively high therefore a 486 PC or better with a 16550 UART based communications port is recommended.
- "Straight-thru" serial extension cable (DB9 female to DB9 male) or (DB25 female to DB9 male). At least five wires are required (shown in bold italic with an *); see chart below. You should have received a 6' cable with the unit.

DB9 female	DB9 male	Description
1	1	
2*	2*	<i>RX</i>
3*	3*	<i>TX</i>
4	4	
5*	5*	<i>Ground</i>
6	6	
7*	7*	<i>RTS</i>
8*	8*	<i>CTS</i>
9	9	

- Terminal program such as Hyper Terminal, Telix, Procomm etc.
- New firmware supplied by Evertz.

Note:

1. Firmware downloaded from the FTP section on the Evertz web page (www.evertz.com) it is stored in compressed form in a zip file. If the file extension is ".exe" you must first run the self extracting zip file to extract the ".bin" located within. If the file extension is ".zip" you must use PKUNZIP or WINZIP to extract the ".bin" located within.
2. There is a backup copy of the firmware for the HD9525LG on the InstaLogo installation CD-ROM in the "Firmware" directory; the file is called (#v#_###.bin).

Update Procedure:

Part I – Terminal program setup

1. Power-down the Evertz frame.
2. Connect the "straight-thru" serial cable from the PCs' RS-232 communications port to the RS-232 communications port on the back of the Evertz frame.
3. Start the terminal program.
4. Configure the port settings of the terminal program as follows:

Baud	57600
Parity	no
Data bits	8
Stop bits	2
Flow Control	None

5. Power-up the Evertz frame.

Part II – Invoke upload mode via the front panel

Note: If you cannot invoke the upload mode via the front panel outlined in Part II then follow the steps in Part III.

9540 Video Delay Processor

- Press the *SETUP* button once.
- Press the *up* or *down* arrow until the main display reads *SOFTWARE UPGRADE*.
- Press the *SELECT* button once.
- The *main display* should now show the message **Select = Upgrade**.
- Press the *SELECT* button to confirm the *Upgrade* operation, press *Setup* to cancel.
- Skip to step 14.

9525DSK-LG Down Stream Keyer with Logo Inserter and 9525DSK Down Stream Keyer

- Press the *SETUP* button once.
- Press the *down arrow* until the main display reads *General*.
- Press the *SELECT* button once.
- Press the *down arrow* until the main display reads *Update code*.
- Press the *SELECT* button once.
- The *main display* should now show the message **Select = Upgrade**.
- Press the *SELECT* button to confirm the *Upgrade* operation, press *Setup* to cancel.
- Skip to step 14.

HD9525LG High Definition Logo Inserter and 9525LG SDI Logo Inserter

- Press the *SETUP* button once.
- Press the *down arrow* until the main display reads *System Setup*.
- Press the *SELECT* button once.
- Press the *down arrow* until the main display reads *Upgrade*.
- Press the *SELECT* again to choose *Upgrade*.
- The *main display* should now show the message **Select = Upgrade**.
- Press the *SELECT* button to confirm the *Upgrade* operation, press *Setup* to cancel.
- Skip to step 14.

9580 Telecine Keyer

- Press the *SETUP* button once.
- Use either *shaft encoder* dial up the *Upgrade* option.
- The *main display* should now show the message **Upgrade**.
- Press the *SETUP* button to choose *Upgrade*.
- The *main display* should now show the message **UPLOAD:Setup=yes**.
- Press the *SETUP* button to confirm the *Upgrade* operation.
- Skip to step 14.

9590 Graticule Generator and HD9590 High Definition Graticule Generator

- Press the *ON/OFF*, *4* and *9* buttons simultaneously then release them.
- The *main display* should now show the message **UPLOAD:Setup=yes**.
- Press the *SETUP* button to confirm the *Upgrade* operation.
- Skip to step 14.

Part III – Invoke upload mode via the terminal program

6. A banner with the boot code version information should appear in the terminal window.

For example:

```
EVERTZ 9000DP MONITOR 1.0 BETA Aug 20 1998 16:25:33
COPYRIGHT 1997, 1998 EVERTZ MICROSYSTEMS LTD.
9000DP COLD BOOT> |
```

7. The following is a list of possible reason for failed communications:
 - Defective RS-232 “straight-thru” serial extension cable.
 - Wrong communications port selected in the terminal program.
 - Improper port settings in the terminal program. Refer to step 4 for settings.
 - Evertz frame is off.
8. The cursor to the right of the word “**BOOT>**” should be spinning.
9. While the cursor is spinning press the <CTRL> and <X> keys, this should stop the cursor from spinning. If the Evertz frame continues to boot-up simply cycle the power on the Evertz frame and repeat this step.
10. Hit the <ENTER> key once.
11. Type the word “**upgrade**”, without quotes, and hit the <ENTER> key once.

12. The boot code will ask for confirmation. Type "y", without quotes.
13. You should now see a prompt asking you to upload the file.

For example:

```
BOOT> upgrade
UPLOAD FLASH MAIN
ARE YOU SURE YOU WANT TO UPLOAD FLASH? [Y/N] Y

UPLOAD FILE FOR $08000 NOW, CONTROL-X TO CANCEL
```

Part IV – Uploading the new firmware

14. Upload the "*.bin" file supplied using the **X-Modem** transfer protocol.
15. The boot code will indicate whether the operation was successful upon completion of the upload.

For Example:

```
UPLOAD OKAY
BOOT>
```

16. The following is a list of possible reason for a failed upload:
 - If you get the message "transfer cancelled by remote" you must restart the terminal program and load the bin file using the method outlined in *Part III – Invoke upload mode via the terminal program*.
 - The supplied "*.bin" file is corrupt.
 - Wrong file specified to be uploaded.
 - The PCs' RS-232 communications port can't handle a port speed of **57600**.
 - Noise induced into the RS-232 "straight-thru" serial extension cable.
 - To ensure proper communications use step 9 to break out of the boot up sequence and type the word *help*. You should get back some text. This confirms that you are sending data, receiving data and are locked to 57600.
17. Power-down the Evertz frame.
18. Power-up the Evertz frame.
19. You can now close the terminal program and disconnect the RS-232 serial cable.

The update procedure is now completed.