



**1. Purpose:**

This procedure details how to transfer the data log in a Medivators DSD Endoscope Reprocessor to a PC using HyperTerminal.

**2. Scope:**

This applies to all DSD EDGE, DSD-201 and SSD models, and DSD-91e with the printer option.

**3. Equipment required:**

1 Printer cable: Medivators Part # MH05-0047

1 PC with Windows

1 standard serial cable (connected to the serial port of the PC)

1 In-line adapter, 6 pins. (available at most major electronic supply stores selling telephone accessories. Item shown in Figure 3a is available from Radio Shack Model: 279-434)

**4. Summary:**

HyperTerminal is available in all Microsoft Windows versions. HyperTerminal is a communication program that captures data and logs it to be saved in a text file. To capture the data from the CPU Board to the printer on a DSD/SSD, the printer cable is connected to a PC's serial cable. When HyperTerminal is active and capturing data, all data will be captured in one file.

Data logs are saved as a text file. The use, sorting and analysis of the data logs are to be determined by the facility.

**5. Data capturing:**

It will be the endoscopy facility's determination when to transfer the data log for each machine. Data can be transferred in three ways:

- Automatically after each cycle (only if automatic printing is available)
- Manually after each cycle
- Manual transfer of the entire log



**6. Software support:**

**Medivators does not provide support for the PC, HyperTerminal or any other software program.** HyperTerminal is supported by Microsoft. There are upgraded versions of HyperTerminal available from the Vendor (see Figure 1)

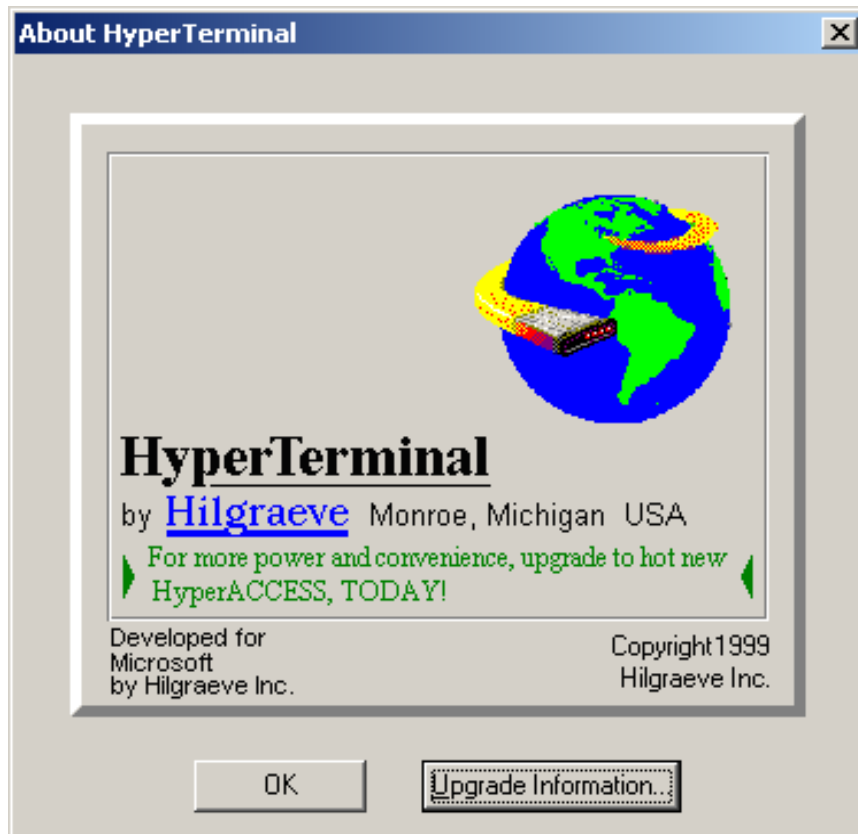


Figure 1



## 7. DSD/SSD Setup

- Open the printer cover.
- Remove the printer cable from the printer.
- Connect the printer cable to one end of the in-line adaptor. Connect the serial adaptor cable (MH05-0047) to the other end of the in-line adaptor (figure2).
- Connect the MH05-0047 9 pin connector to the PC serial connector.



Figure 2

Figures 3a & 3b show examples of in-line adaptors.



Figure 3a (Radio Shack, Model: 279-434)

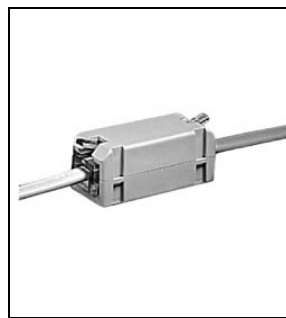


Figure 3b



## 8. PC Setup

### 8.1. Create a folder to store the data logs.

NOTE: The following are suggestions. The facility should develop and document a protocol for naming and saving these data files.

- Create a folder on the hard drive where the data logs will be stored.
  - ✓ Suggested Title for the folder "C:\DSD data log"
- If more than one DSD is installed, name the folder using the Serial numbers (i.e. as: C:\DSD data log 600xxx or C:\DSD data log 600yyy.)
- Windows 3.X does not support long file names. In this instance the best method is to create sub directories and name the file by Serial Number only. Example: C:\DSDdata\600xxx would be the directory path. The full path of the data log file would be:  
C:\DSDdata\600xxx\600xxx.txt

## 9. HyperTerminal setup:

### 9.1. Windows 95 and up:

- Click on 'Start',
- then 'Accessories',
- then 'Communications',
- then select 'HyperTerminal'.

### 9.2. Windows 3.x

- Open 'Program Manager'
- Open 'Accessories'
- Click on 'HyperTerminal'
- Go to section 3.3 for the HyperTerminal settings

NOTE: When HyperTerminal opens, The 'Connection Description' window opens. (See Figure 4) All screen shots in this procedure are from Windows 2000 and may look different from other Windows versions.

### 9.3. HyperTerminal settings.

- Name the connection: See Figure 4. It is suggested to use DSD and Serial number for the designation.
- Set the 'Connect Using' field to Com 1 or Com 2. See Figure 5.

NOTE: You will need to verify the Com port selected is not in use by any other program or device as this may cause interference.

- Set the Com1 Bits to 4800 for all DSD EDGE, DSD-201, SSD-102, and DSD-91E with 3 Rinse upgrade. Set the communication speed to 1200 bps for all DSD-91E's without the 3 Rinse upgrade. See Figure 6.

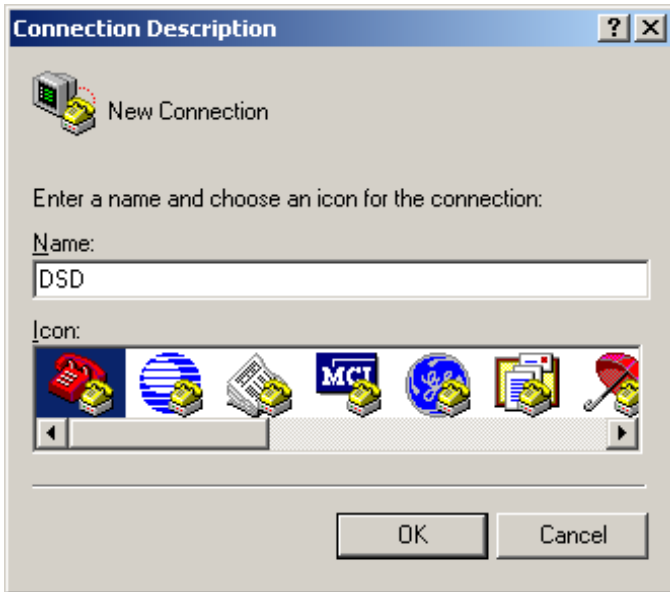


Figure 4



Figure 5

- Set the Bits per second to 4800 (Figure 3)

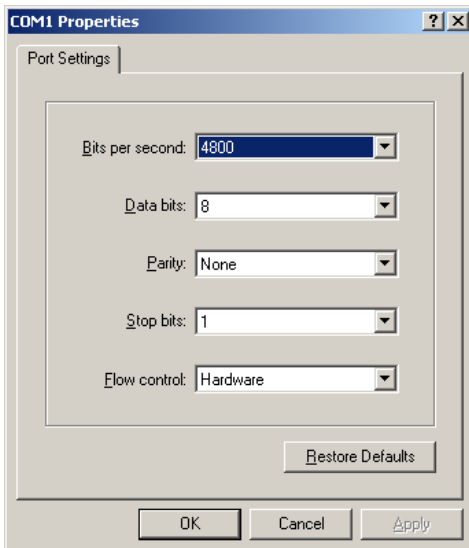


Figure 6

- Click OK (in figure 6) and the HyperTerminal window will open (next page, Fig 7)
- On the menu bar, select 'File', then 'Properties'. The 'New Connection Properties' window will open (Fig 8).
- Click on ASCII setup to open the ASCII setup window Fig 9.
- Verify the box is checked for: '**Append line feeds to incoming line ends**' and '**Wrap lines that exceed terminal width**'. Click OK to return to the main screen.

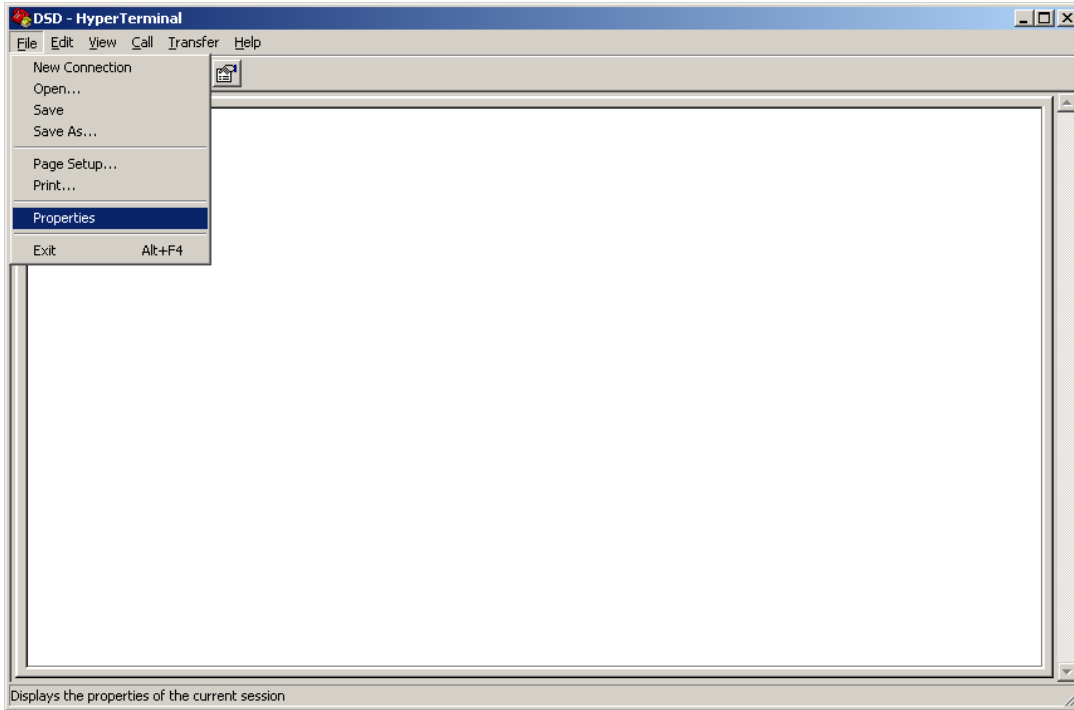


Fig 7

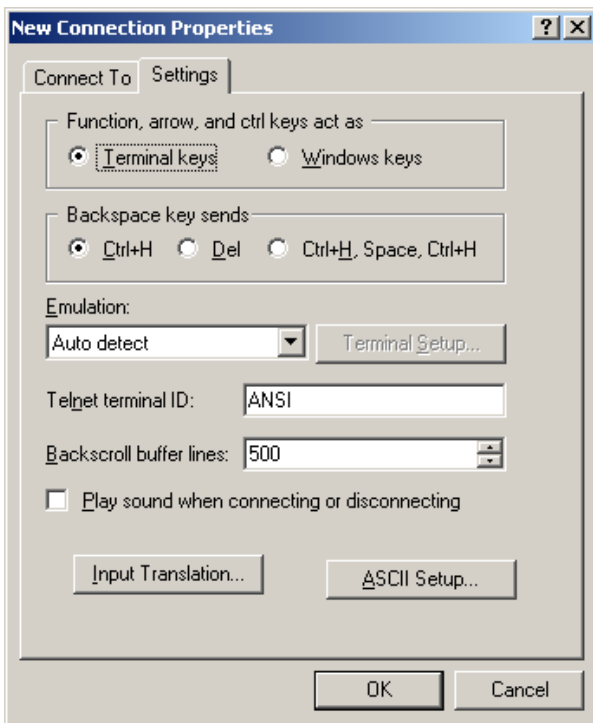


Fig 8

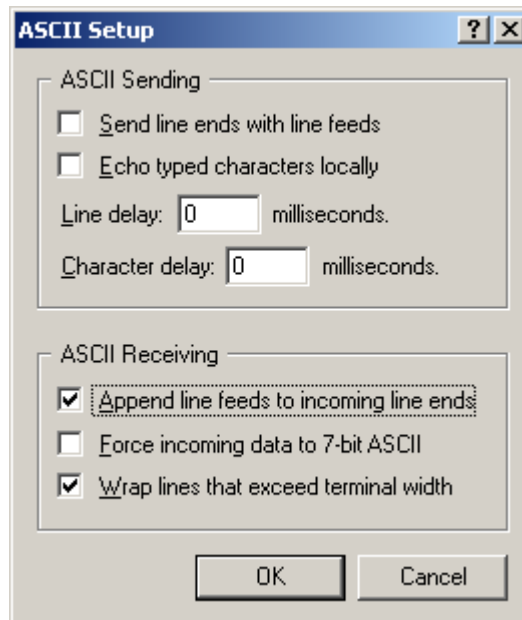


Fig 9

**9.4.** On the menu bar select 'Transfer' and then 'Capture Text' from the drop down menu (Figure 11, next page). The 'Capture Text' box (Figure 12) will open up.

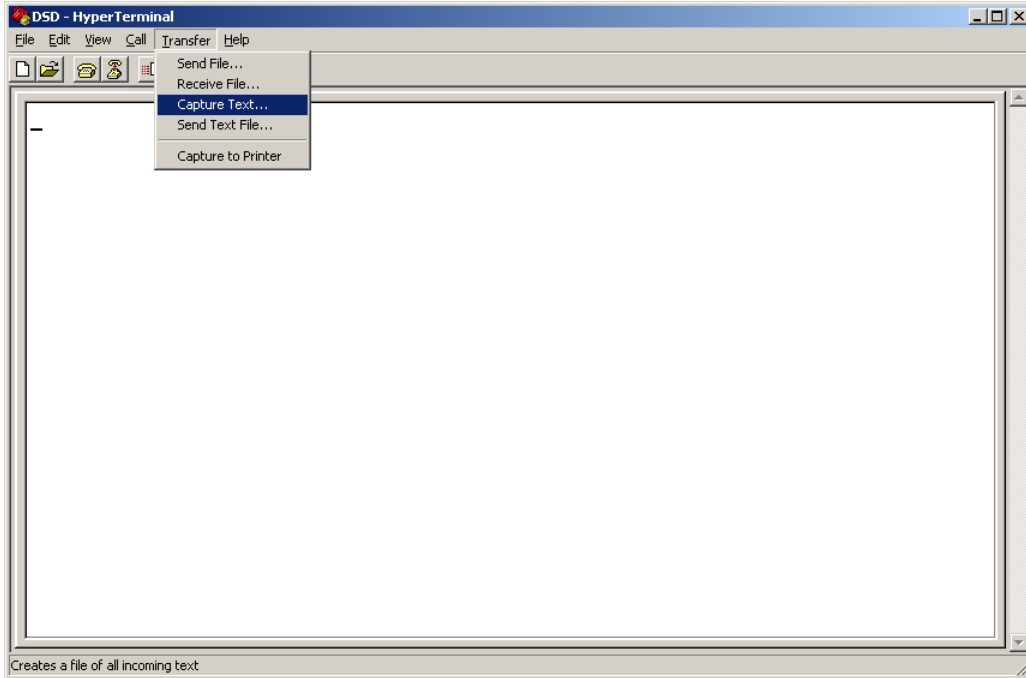


Figure 11

**10. Create the file name in the 'Capture Text' file field (Figure 12).**

- The full path will need to be entered. If the file has already been saved, it can be found by clicking the Browse button.
- A suggestion is to use the serial number and the date the file is saved.

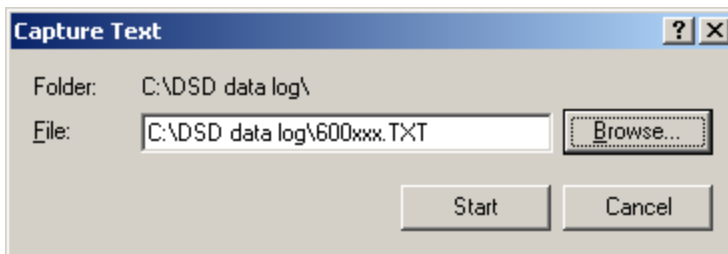


Figure 12

**11. Capturing the Data Log**

- 11.1.** Click 'Start' (in Figure 12), the HyperTerminal session will be active. Now print the last run or entire log on the DSD/SSD (Setup 21 or setup 25). The data will appear in the main HyperTerminal window.
- 11.2.** If HyperTerminal is to be active all day, the session will remain open and capture printouts as they print automatically or when the print command is initiated. The reliability of this is dependent upon the PC and Operating system.
- 11.3.** If more than one DSD is installed, capturing the data one DSD at a time at the end of the day may be more reliable. When using Windows, there is a chance the PC may lock up or have other failures that are not associated with the function of the DSD.

Medivators suggests capturing the data log on a daily/weekly basis and then clearing the log after the capture has been completed.



## 12. Opening HyperTerminal

12.1. After creating the session and exiting HyperTerminal for the first time, the program will prompt to save the session. Select 'Yes' and the session will be saved and can be opened as follows:

- Open HyperTerminal. When the 'New Connection' box appears (Fig 13), click on 'Cancel'.

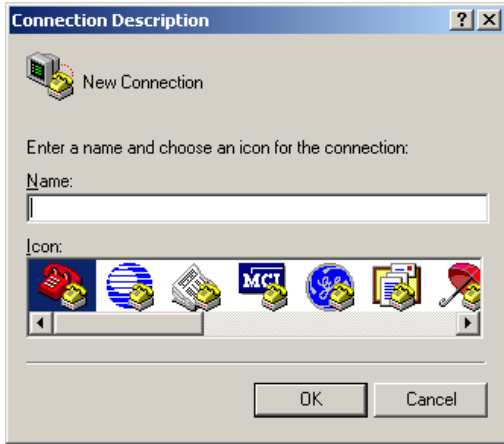


Fig 13

- Then click on the Open Folder icon on the tool bar.

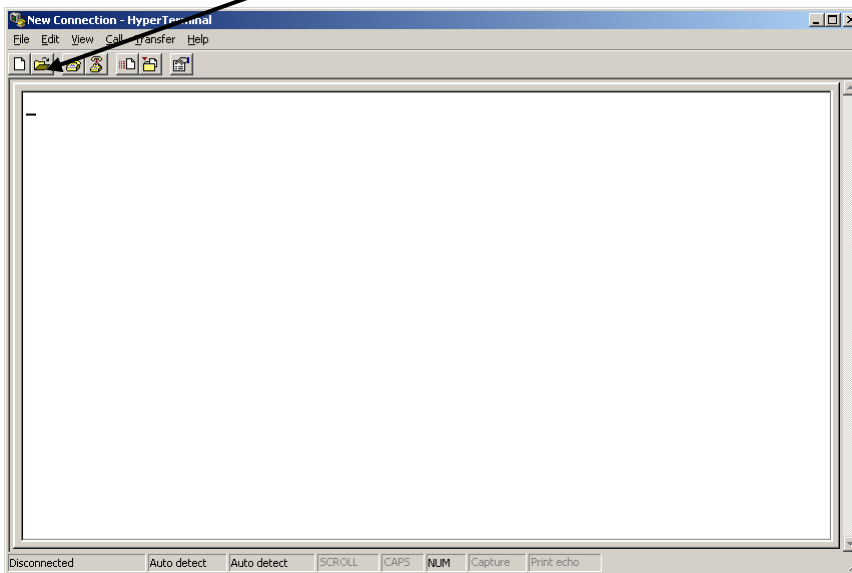


Fig 14



- The following window opens. Select the session to be opened by double clicking on the Session name.

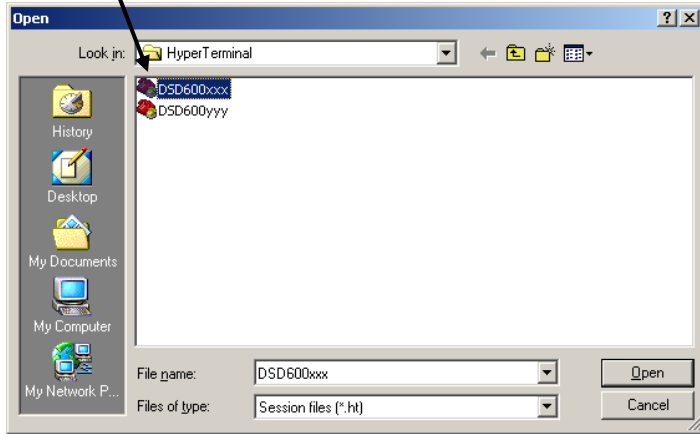


Fig 15

### 13. Stopping data transfer and closing HyperTerminal

13.1. To stop the data capture: On the HyperTerminal menu bar, select 'Transfer', 'Capture Text' then 'Stop'. The data transfer is now stopped'

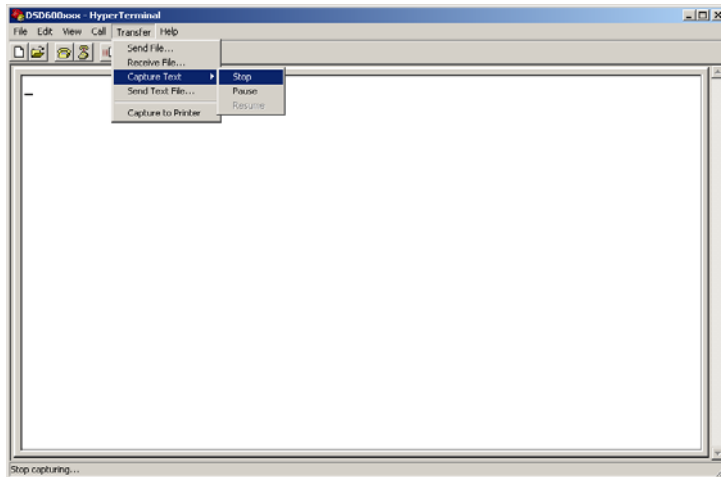


Fig 16

13.2. Close HyperTerminal by clicking the 'X' in the upper right corner of the window, or on the HyperTerminal Menu bar, select 'File' then 'Exit'.

13.3. When you exit, a small window will ask if you want to save the session. If you click on 'Yes', all settings will be saved.

For additional information contact Medivators Customer Support at 1-800-444-4729.