

NOTES ON PROGRAMMING MUSEUM TECHNOLOGY CONTROL UNITS WITH A *WINDOWS* BASED PC

All versions of Windows contain a terminal program, HYPERTERMINAL, which works quite well for programming Museum Technology control units, such as HD and DVD (and also VDC controllers when being used with a long-play video disc or a Sony player).

If you are using *Windows 98* or XP, from the START menu (lower left of screen usually), go to the PROGRAMS menu, then to the ACCESSORIES menu, then to COMMUNICATIONS, then to HYPERTERMINAL.

If you are using *Windows 95*, the steps are the same, except there is no COMMUNICATIONS menu. Go directly to HYPERTERMINAL from ACCESSORIES.

Double click on the HYPERTERM.EXE icon (may just say HYPERTRM). The program will open with a NEW CONNECTION dialogue box which asks you to enter a name and select an icon. Enter the name of the product you are about to program, such as DVD-204. The choice of icon is immaterial. Click OK.

The next dialog box will ask for a phone number. Go to the fourth box down, CONNECT USING, and select DIRECT TO COM1 (This assures that COM1 Port is free on your machine. Sometimes the internal modem occupies this position. If this is the case, select COM2). Click OK.

The next dialog box is entitled PORT SETTINGS. Use the following settings for all DVD Controllers:

Baud	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Note: For HD-204 and HD-212 Adtec Hard Disc Controllers the Baud Rate is 38,400
DVD-204 and DVD-212 use 9600 Baud
VDC-200A, VDC-212, VSQ-1, CSQ-1 use 1200 Baud
CD-200, CD-212 below version 5.0 use 1200 Baud
CD-200, CD-212 above version 5.0 use 9600 Baud

For Video Disc Controllers, such as the VDC-200A and VDC-212, use the same settings except the Baud Rate is 1200. Click OK. Main screen will appear and at the bottom left message "Connected" will appear.

Connect the programming cable from the 9-pin COM port on the back of the PC to the 5-pin circular connector on the back of the Museum Technology product. Make sure power is connected. Press the red PROGRAM button on the back of the Museum Technology control unit. The red LED should illuminate and the programming menu should appear on the computer screen. Note: The PC-9 programming cable may have either 3 or 5 pins; this is of no concern in that only three wires are used.

Computer lacks serial port

Recent pc's, especially laptops, frequently do not have serial ports (legacy ports). If this is the case, it will be necessary to purchase a USB to Serial adaptor. This device plugs into the computer's USB port, and the other end is a standard 9 pin connector.

Trouble Shooting

In virtually all cases, problems may be traced to having the wrong COM Port selected. If the computer has more than one 9-pin connector on the back, try the other one. Keep in mind that only one application at a time may use a given COM port. Check to make sure that some other program is not already using the COM port you have selected. For example, if a dial-up connection has been recently made, and the program is still running, the modem may be using the COM port you have selected, preventing the Hyperterm program from using it.

If gibberish appears, it is generally due to having the wrong Baud Rate selected.

Keep in mind that the Museum Technology box just sends the main menu immediately after the red PROGRAM button has been pushed; to get to the main menu again, merely press the RESET button and the the PROGRAM button.

Any changes made in HYPERTERMINAL will not take effect until a disconnect has been made and a reconnection established. To disconnect, click on the icon of a phone off the hook. The message on the lower left of the screen will now say "Disconnected." Reconnect by clicking on the icon of the phone off the hook.

October, 1999
Revised March, 2000
Revised November, 2000
Revised July, 2003
Revised April 2005