



# TECH NOTE

VICON TECHNICAL SERVICES GROUP

**Subject:** VPS RS232 Control  
**Product:** All VPS Systems  
**Number:** 1400-0001-14-00  
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## Controlling a Vicon CPU with HyperTerminal™

This Tech Note details the procedure to configure a computer using Microsoft Windows™ 95/98 HyperTerminal™ and connect it to a Vicon Programmable System (VPS) for control via ASCII commands through the VPS system's RS-232 port.

Using a four conductor, 22awg, overall shielded cable, and appropriate connectors, construct an interconnect cable according to the following table:

VPS System		Host Computer	
RS-232 Port		9-Pin	25 Pin
Pin	Signal Name	Connector	Connector
1	Not Used	-	-
2	TxD	2	3
3	RxD	3	2
4	RTS	8	5
5	CTS	7	4
6	Not Used	-	-
7	Ground	5	7
8	Not Used	-	-
9	Not Used	-	-

Note: RS232 port pinouts are the same for the VPS1300 (V1300X-SV, J7); VPS1344, J1; VPS328 J6; V1422, J6; and V1466, J1).

### Configuration:

1. From Windows Desktop, click on "Start" and select "Programs", "Accessories", and click on "HyperTerminal™".
2. Double click on the "HyperTerminal™" icon.
3. At the "New Connection – HyperTerminal™" screen, click on "File" and "New Connection".
4. Enter the name of the new connection – "Comm Port", "VPS", or similar. Select an icon of your choice and click "OK".
5. At the "Connect To" dialog box, click on the drop down arrow for the "Connect Using" line. Select "Direct to Com 1" (or Com 2 if your system requires) and click on "OK". On most notebook computers, the single DB-9 connector is Com 1.
6. In the Com 1 Properties dialog box, set Bits Per Second to your preferred baud rate, Data Bits to "8", Parity to "None", Stop Bits to "1", and Flow Control to "Hardware". Click on "OK".
7. At The taskbar, click on "File", "Properties".
8. Click on the "Settings" tab, set "Emulation" to "Auto Detect" and click on "ASCII Setup".
9. Under "ASCII Sending", place a checkmark next to "Echo typed characters locally".
10. Under "ASCII Receiving" place checkmarks next to "Append line feeds to incoming line ends" and "Wrap lines that exceed terminal width". Click "OK".
11. At the Properties "Settings" tab, click "OK".
12. At the taskbar, click on "File" and "Exit".
13. Click on "Yes" to the question "Do you want to disconnect now?"
14. Click on "Yes" to the question "Do you want to save session XXX?"

### Operation:

The following describes use with a VPS1466. Other systems are similar but commands may vary slightly. Refer to the appropriate Host Computer Interface Software manual for each system.

1. From Windows Desktop, click on "Start" and select "Programs", "Accessories", and click on "HyperTerminal™".
2. Double click on the icon that was created in Step 4 above..
3. In the VPS1466 menu, insure that the settings in "Configure Host Port" are the same as those in Step 6 above. Determine if any Administrator password is set.
4. If no password is in use, commands may now be entered. Each command must begin with a Ctrl A (control key + A), contain the command letter (A for monitor select, B for camera select, and the number corresponding to the command, i.e., 001 for monitor 1, 0004 for camera 4, etc.), and end with the Enter key. The following example will select camera 20 to monitor 4 (Note: do not insert spaces between the commands; spaces are shown for clarity only):  
Ctrl A A004 Enter (selects Monitor 4)  
Ctrl A B0020 Enter (selects Camera 20 to the Monitor)

Note: The system commands are case sensitive. Insure that you use capital letters where required.

5. When a command is sent to the VPS, the VPS will respond with a dollar sign (\$). If the command is incomplete, or otherwise unrecognized by the VPS, the response will be a question mark (?).
6. If a host port password is in use, the response to commands sent to the VPS will be "Please Login \$". Enter the following: Ctrl A IDXXXXXXXXXX Enter (where X's represent the password). If the password was accepted, the VPS will respond with "Host Logon at : hh:mm:ss MM:DD:YY" \$.
7. Logging out can be done by entering Ctrl A LOGOFF Enter. The system will respond with "Host Logout at hh:mm:ss MM:DD:YY" \$.

### Associated manuals:

VPS1300, VPS1344: X788, Host Computer Interface Software for VPS1300 and VPS1344 Microcomputer-Based Control Systems

VPS328 or V1422: X678, V1422 Host Computer Interface Software (Note: The VPS328 was the predecessor to the V1422. Most programming functions are the same.)

V1466: X912, V1466 Host Computer Interface Software