

AV Connectivity, Distribution
And Beyond....

VIDEO WALLS VIDEO PROCESSORS VIDEO MATRIX SWITCHES EXTENDERS SPLITTERS WIRELESS CABLES & ACCESSORIES

Control Commands



SW-HBT-C6POE-8X8E/16X16E

HDMI HDBASET MODULAR MATRIX BI-DIRECTIONAL IR/RS232POE AND 4K2K SUPPORT















Model #: HDM-SWITCHPRO-VW4

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SECTION I: COMMAND PROTOCOL FORMAT (RS-232 SERIAL PORT)

I.I SERIAL PORT SETTING:

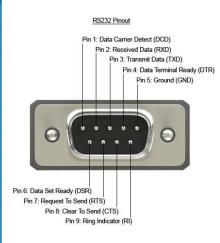
Baud Rate: 19200bps Data Bit: 8 bits Parity: None

Flow Control: None

Stop Bit: I

RS-232 Wiring (Cross Cable Connection)

SW-HBT-C6POE	-16X16E		Controller	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	TxD	-	2	RxD
3	RxD		3	TxD
4	NC		4	NC
5	GND	•	5	GND
6	NC		6	NC
7	NC		7	NC
8	NC	1	8	NC
9	NC		9	NC



Modular Matrix Chassis CPU SECTION

- a. RS-232: Connect with D-Sub 9-pin cable from PC/Laptop device to RS-232 for control over the Matrix or the connected RS232 device(s) at the Rx.
- b. CONTROL: Connect to an active network line for LAN serving and Telnet/Web GUI control.
- c. IR OUT/IN: Reserved.
- d. SERVICE: This port is reserved for firmware update only.
- e. OUTPUT 0: Connect to DVI/HDMI (with DVI to HDMI adaptor) monitor/TV for local output monitoring.





I.2 TELNET SETTING:

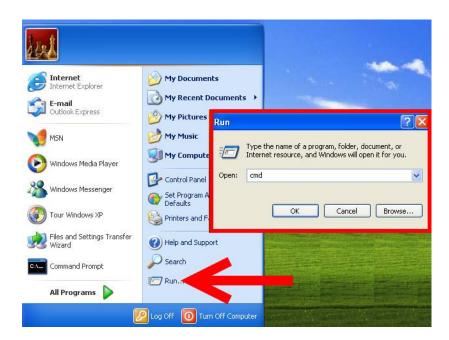
Using TCP/IP protocol, sent to Port 23 for Telnet communication.

The user can confirm from the OSD menu or through RS-232 command to check Telnet connection behavior.

To use the telnet control, please ensure that both the Matrix (via the 'LAN /CONTROL' port) and the PC/Laptop are connected to the active networks not directly connected.

To access the telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press enter. Under Windows XP go to the 'Start' menu and click on "Run", type "cmd" with then press enter.

Under Mac OS X, go to Go \rightarrow Applications \rightarrow Utilities \rightarrow Terminal See below for reference.







In the CMD window proceed to type "telnet", then the IP address of the unit and "23", then hit enter/return.

Note: The IP address of the Matrix can be displayed on the device's LCM monitor by pressing the Menu button twice.

```
C:\Users\Sales2> telnet 192.168.5.80 23
```

After connecting to the Matrix Switcher via IP address. Type "HELP" to preview the list of commands available.

```
Telnet 192.168.5.139
                                                                            _ 🗆 🗙
 Welcome to Avenuiew Matrix Telnet
telnet-> help
                 PØ : Power Off
                 P1 : Power On
               RESET : System Reset to 0111,0212,0313,0414,0515....
     0xxIxx(x:01~8) : Output 0~8 set to Input 1~8
  ALLOUT xx(x:01~8) : All Output set to Input 1~8
    MUTE xx(x:0~8): Video mute command at output interface
  UNMUTE xx(x:0~8) : Video unmute command at output interface
             MUTEALL: Mute all outputs
           UNMUTEALL : Unmute all outputs
            SHOWMUTE : Show mute status of all output(0=not muted,1=muted)
   RDMUTE xx(x:0~8) : Read MUTE Status at Output
  HPDLOW xx(x:01~8) : Pull the Hot-Plug-Detect signal to 'LOW'
 HPDHIGH xx(x:01~8) : Pull the Hot-Plug-Detect signal to 'HIGH'
          HPDLOW ALL : Set All Input HPD to Low
         HPDHIGH ALL: Set All Input HPD to High
             SHOWHPD: Report ALL Input Hot-Plug-Detect signal status
 STATUSHPD x(x:1~8) : Show HPD status of input(x)
           SHOWTEMP : Show temperature sensor values y1, y2
 STATUSIN xx(x:01~8) : Report Input connection status
STATUSOUT xx(x:0~8) : Report Output connection status
           STATUSALL: Report ALL Output connection status
           STATUSEDID : Report ALL Input EDID mode&port
 SETEDIDMODE ii mm(ii:01~8 mm:1~3) : Set EDID mode(mm) to Input(ii)
 SETEDIDMODE ALL mm (mm=1~3): The EDID mode(mm) of All Input(ii)
 ETEDIDPORT ii pp(ii:01~8 pp:01~8) : Set EDID Assigned Port(pp) to Input(ii)
 SETEDIDPORT ALL mm (pp=01-8): The EDID of All Inports is assigned to Output
              ACTIVE : Report I/O active channels
            INDETECT : Input channels detect indicator
           OUTDETECT : Output channels detect indicator
            IPCONFIG: Display the current IP config
SETIP <IP> <SubNet> <GW> : Setting IP.SbuNet.GateWay(Static IP)
               RSTIP : IP Configuration Was Reset To Factory Defaults(DHCP)
      SETIPADDR <IP> : Setting IP address
  SETSNMASK (SubNet) : Setting subnet mask
      SETGWADDR <GW> : Setting gateway IP address
```

Type "IPCONFIG" To confirm all IP configurations.

To RESET the IP ADDRESS; type "RSTIP" /To SET a STATIC IP, type"SETIP" (For a full list of commands, see Section 1.3).

Note: Commands will not be executed unless followed by a carriage return. Commands are case-insensitive. If the IP is changed then the IP Address required for Telnet access will also change accordingly.



1.3 RS 232 & TELNET COMMANDS:

All commands will be not executed unless followed with a carriage return (0x0D) and commands are case sensitive

Command	Description
P1	Power on.
PO	Power off.
Oxly	Output (x:0~16) set to input (y:1~16).
ALLOUT x	All output set to input (x:01~16).
ACTIVE	Report I/O active channels.
INDETECT	Input channels detect indicator.
OUTDETECT	Output channels detect indicator.
PORTSTATUS	Report all output connection status.
HDCPON x	Setting input port(x:01~16) HDCP on.
HDCPOFF x	Setting input port (x:01~16) HDCP off.
HDCPONALL	Setting all input port HDCP on.
HDCPOFFALL	Setting all Input port HDCP off.
HDCPSTATUS	Show HDCP status of all output (0=HDCP disable, 1=enable).
MUTEO x	Video mute command at output (x:0~16) interface.
UNMUTEO x	Video unmute command at output (x:0~16) interface.
MUTEI x	Video mute command at input (x:0~16)interface.
UNMUTEO x	Video unmute command at output (x:0~16) interface.
UNMUTEI x	Video unmute command at input (x:0~16) interface.
MUTEALL	Mute all outputs.
UNMUTEALL	Unmute all outputs.
MUTESTATUS	Show mute status of all output(0=not muted,1=muted).



HPDL x	Pull the input(x:01~16) Hot-Plug-Detect signal to 'LOW'.
HPDH x	Pull the input(x:01~16) Hot-Plug-Detect signal to 'HIGH'.
HPDLALL	Set all input HPD to Low.
HPDHALL	Set all input HPD to High.
HPDSTATUS	Report all input Hot-Plug-Detect signal status.
EDIDMODE x y	Set EDID mode(y:1~2) to Input(x: 01~16).
EDIDMODEALL x	The EDID mode(x:1~2) of All Input.
EDIDPORT x y	Set EDID Assigned Port(y:01~16) to Input(x:01~16).
EDIDPORTALL x	The EDID of All Inports is assigned to Output (x:01-16).
EDIDSTATUS	Report all input EDID mode&port.
UART x "str"	Write UART string to output port(x:01~16).
UARTBAUD x y	Setting output port(x:01~16) UART baud rate(y).
STATUSUART	Show output port UART baud rate.
TEMPSTATUS	Show temperature sensor values y1, y2.
SETIPADDR	Setting IP address <x.x.x.x>.</x.x.x.x>
SETSNMASK	Setting subnet mask <x.x.x.x>.</x.x.x.x>
SETGWADDR	Setting gateway IP address <x.x.x.x>.</x.x.x.x>
IPCONFIG	Display the current IP config.
RSTIP	IP Configuration Was Reset To Factory Defaults(DHCP).
BUZZER x	Buzzer Mute(0),UnMute(1).
REBOOT	System reboot.
SAVETO X	Save as Preset x(1~10).
RECALLTO X	Recall Preset x(1~10).

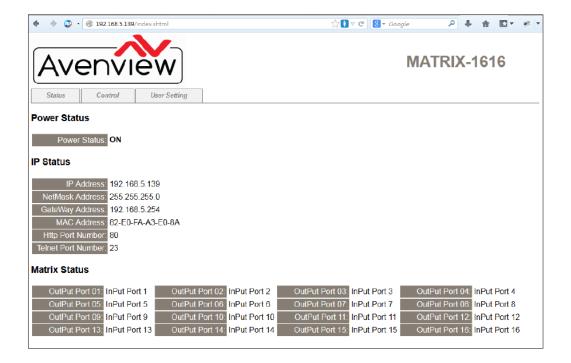
	System Reset to O111,0212,0313,0414,0515
VERSION	Display controller firmware version.



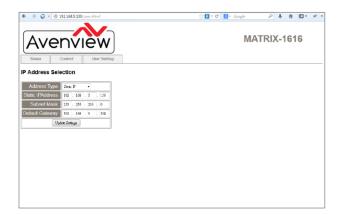
I.4 WEB GUI Control:

All commands will be not executed unless followed with a carriage return (0x0D) and commands are case sensitive

With a PC/Laptop connected to the same active LAN network as the Matrix switcher, click on a web browser and type device's IP address on the web address entry bar. The browser will display the device's status, control and User setting pages.

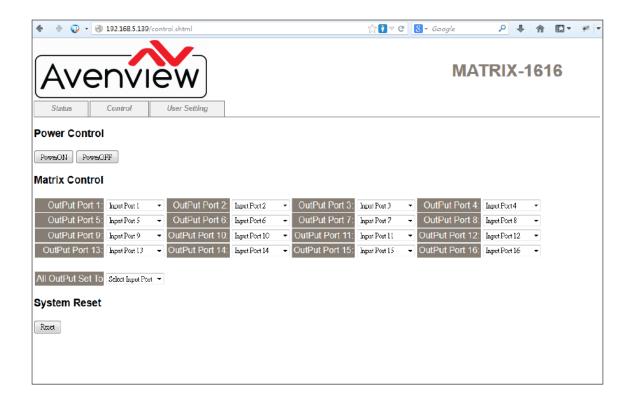


The 'User Setting' TAB allows the user to reset the IP configuration. The system will require a reboot to the device once any of the settings are changed within this TAB. The IP address needed to access the Web GUI control will also need to be changed accordingly on the web address entry bar.





Click on the 'Control' TAB to toggle power ON/OFF, Input/Output ports, EDID and reset mode.







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TECHNICAL SUPPORT

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