Avenview

Control Your Video

VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS **SPLITTERS** WIRELESS
CABLES & ACCESSORIES
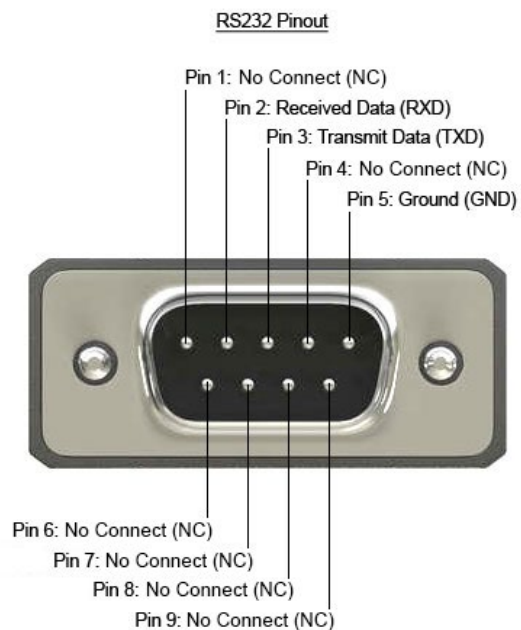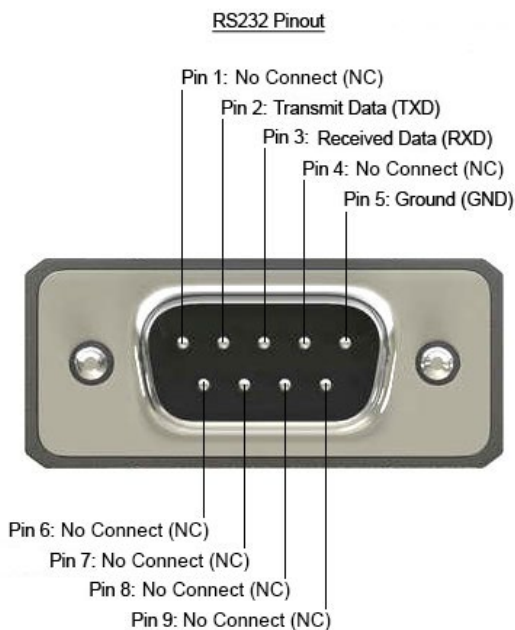
Control Commands

Model #: SW-HBT-C6POE-4X8E

SECTION 1: COMMAND PROTOCOL FORMAT (RS-232 SERIAL PORT)

1. SERIAL PORT SETTING

- **Baud Rate: 19200 bps**
- **Data Bit: 8 bits**
- **Parity: None**
- **Flow Control: None**
- **Stop Bit: 1**

RS-232 Wiring (Straight Connection)

SW-HBT-4K-4X4E		Remote Controller(PC)	
PIN	Assignment	PIN	Definition
1	NC	1	NC
2	TxD	2	RX
3	RxD	3	TX
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

RS232 Pinout

Pin 1: No Connect (NC)
Pin 2: Transmit Data (TXD)
Pin 3: Received Data (RXD)
Pin 4: No Connect (NC)
Pin 5: Ground (GND)

Pin 6: No Connect (NC)
Pin 7: No Connect (NC)
Pin 8: No Connect (NC)
Pin 9: No Connect (NC)

RS232 Pinout

Pin 1: No Connect (NC)
Pin 2: Received Data (RXD)
Pin 3: Transmit Data (TXD)
Pin 4: No Connect (NC)
Pin 5: Ground (GND)

Pin 6: No Connect (NC)
Pin 7: No Connect (NC)
Pin 8: No Connect (NC)
Pin 9: No Connect (NC)

2. RS-232 & TELNET COMMANDS

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

| Command	Active
A1~A4	Switch Output A to 1~4
B1~B4	Switch Output B to 1~4
C1~C4	Switch Output C to 1~4
D1~D4	Switch Output D to 1~4
E1~E4	Switch output E to 1~4
F1~F4	Switch output F to 1~4
G1~G4	Switch output G to 1~4
H1~H4	Switch output H to 1~4
A0~H0	Switch output A to F mute
ABCD…1~ABCD…4	Setting IP. SubNet. GateWay (Static IP)
ABCD….0	IP Configuration Was Reset To Factory Defaults <DHCP>
SETIP <IP> <SubNet> <GW>	Setting IP. SubNet. GateWay (Static IP)
RSTIP	IP Configuration Was Reset To Factory Defaults <DHCP>
IPCONFIG	Display the Current IP Config
P0	Power OFF
P1	Power ON
I1~I4	Switch all the output to 1~4
I0	Mute all the output
ST	Display the current matrix status and F/W version
RS	System Reset to A1, B1, C2, D2, E3, F3, G4, H4
EM	Setting EDID MODE. 1-STD 2-TV
?	Display all the available commands
UARTBAUD1~4	Display baud rate setting from 1~6 1: 9600bps 2: 14400bps 3: 19200bps 4: 38400bps 5: 57600bps 6: 115200bps

Command	Active
UARTBAUD2	Set output B's baud rate from 1~6
UARTBAUD4	Set output D's baud rate from 1~6
UARTBAUD6	Set output H's baud rate from 1~6
UARTBAUD8	Set output H's baud rate from 1~6
UARTSW?	Display output's UART status
UARTSW2	Display all the output's UART baud
UARTSW4	Switch Output A B C D... to 1~4 at the same time
UARTSW6	Setting IP. SubNet. GateWay (Static IP)
UARTSW8	IP Configuration Was Reset To Factory Defaults <DHCP>
Quit	Display the Current IP Config
P0	Power OFF

UARTSW 0
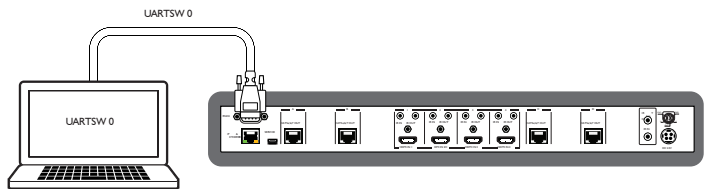
Note: This command allows RS-232 to control the Matrix.

RS-232 Equipped Device
UARTSW 1

RX

UARTSW 1
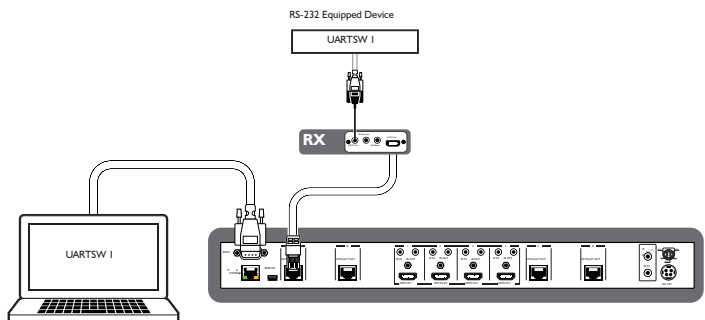
Note: This command allows RS-232 to control the RS-232 device connected to output A's Receiver.

RS-232 Equipped Device
UARTSW 2

RX

UARTSW 2
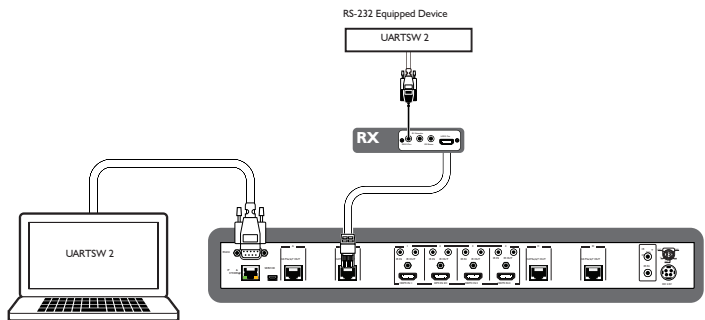
Note: This command allows RS-232 to control the RS-232 device connected to output B's Receiver.

RS-232 Equipped Device
UARTSW 3

RX

UARTSW 3
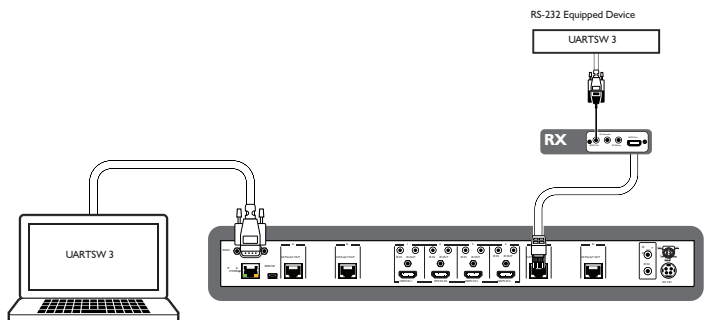
Note: This command allows RS-232 to control the RS-232 device connected to output C's Receiver.

RS-232 Equipped Device
UARTSW 4

RX

UARTSW 4
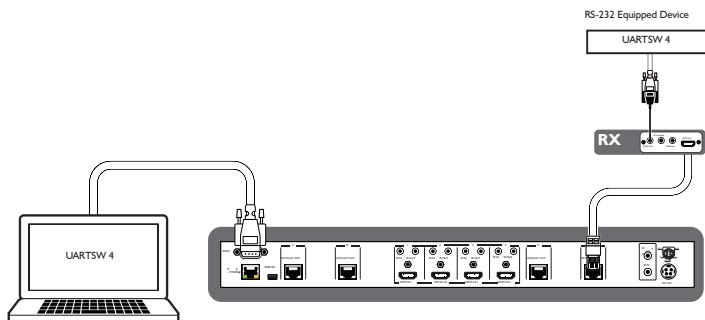
Note: This command allows RS-232 to control the RS-232 device connected to output D's Receiver.

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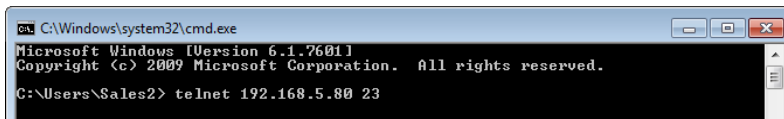
To access the telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press enter. Under Windows XP go to the 'Start' menu and click on "Run", type "cmd" with then press enter.

Under Mac OS X, go to Go→Applications→Utilities→Terminal See below for reference.
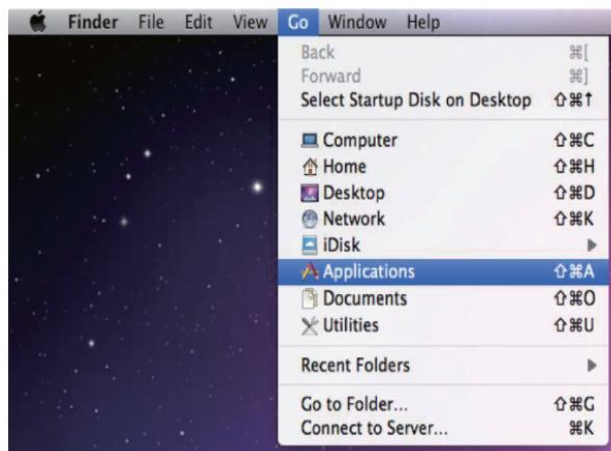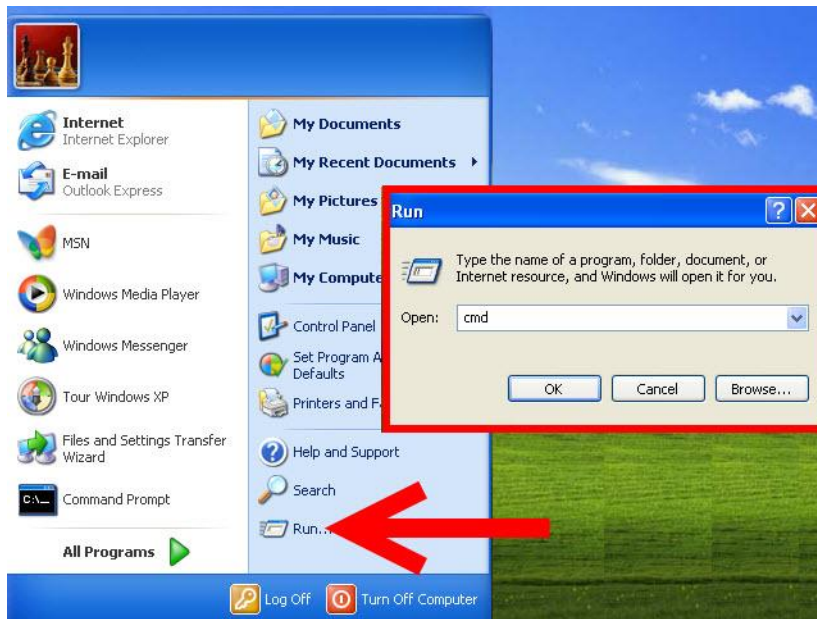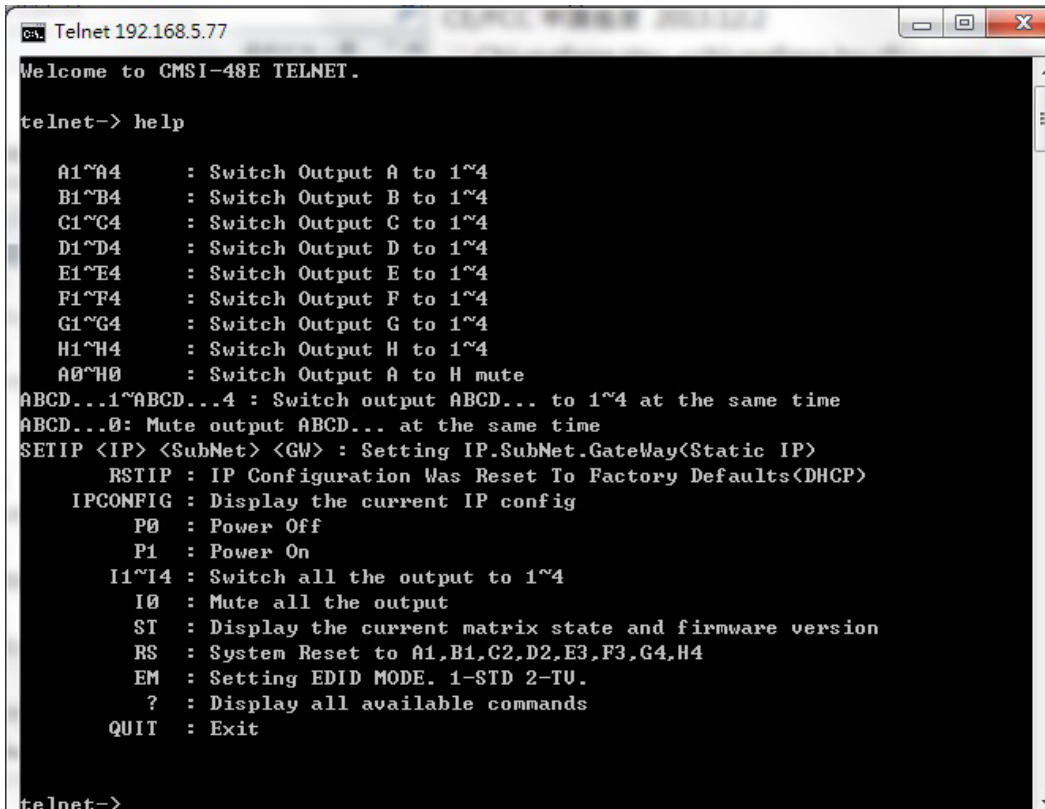
In the CMD window proceed to type "telnet", then the IP address of the unit and "23", then hit enter/return.

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

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

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.*
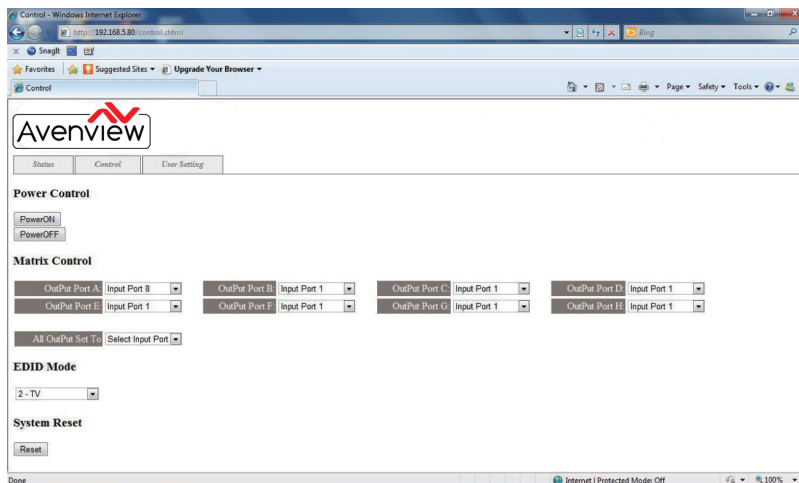
On a PC/Laptop that is connected to the same active network as the Matrix, open a web browser and type device's IP address on the web address entry bar. The browser will display the device's status, control and User setting pages.
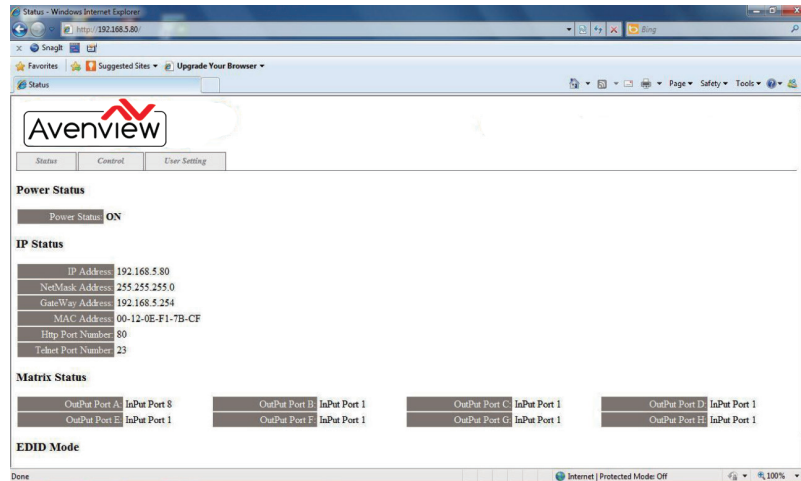
Click on the 'Control' tab to control power, input/output ports, EDID and reset mode

Clicking on the 'User Setting' tab allows you to reset the IP configuration. The system will ask for a reboot of the device every time any of the settings are changed. The IP address needed to access the Web GUI control will also need to be changed accordingly on the web address entry bar.
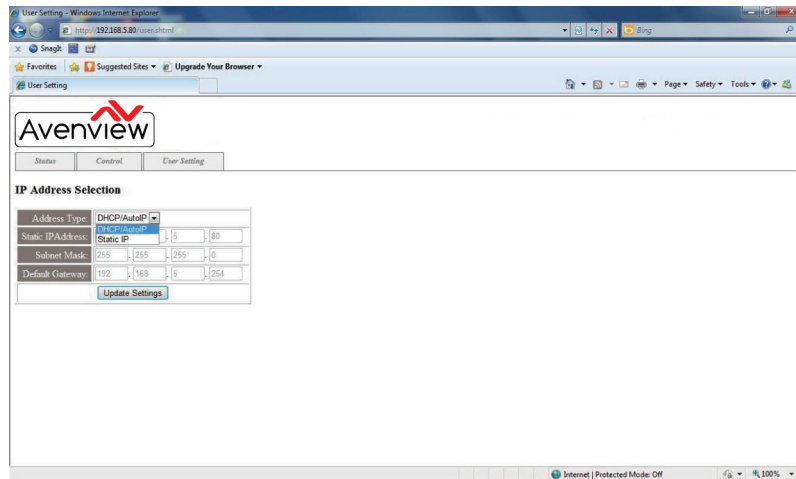
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