

Control Your Video

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

Control Commands



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I. SERIAL PORT SETTING

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

RS-232 Wiring (Straight Connection)



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.

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

Command	Description
P1	Power on.
РО	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).
RESET	System Reset to 0111,0212,0313,0414,0515
VERSION	Display controller firmware version.



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.

let.		
Internet Internet Explorer Internet Explorer	My Documents My Recent Documents	
MSN	My Music My Compute	the name of a program, folder, document, or net resource, and Windows will open it for you.
Windows Messenger	Control Panel Open: cmd	OK Cancel Browse
Files and Settings Transfer	Help and Support	
All Programs		

🗯 Finder	File Edit	View Go	Window	Help	
			lack Forward Select Startur	p Disk on Desktop	ቻ[ቻ] ዕዝ†
			Computer Home Desktop Network iDisk		쇼#C 쇼#H 쇼#D 쇼#K
			Applicatio Document Utilities	ns Is	<u> </u>
			Recent Folde	rs	 ۸۳с
			Connect to S	erver	#K



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.

ex Telnet 192.168.5.139	-		X
Welcome to Avenview Matrix Telnet			•
telnet-> help			
PØ : Power Off			
P1 : Power On DECET : Sumbar Breat to 0414 0212 0212 0414 OFIE			
RESEL - System Reset to 0111,0212,0313,0414,0315			
ALLOWIT $xx(x;01^{\circ}8)$: All Output set to Input 1 $^{\circ}8$			
MUTE xx(x:0 [°] 8) : Uideo 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 HII Input HPD to High			
SHOWHPD : Report HLL Input Hot-riug-Detect signal status			
SHOUTEMP : Show temperature sensor values ut v2			
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)			
SETEDIDPORT ii pp(ii:01~8 pp:01~8) : Set EDID Assigned Port(pp) to Input(i	i)		
SETEDIDPORT ALL mm (pp=01-8) : The EDID of All Inports is assigned to O	itpi	ιt	
pp			
HUTTVE : Report 1/0 active channels			
AUTDETECT : Autout 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(DHC	P)		
SETIPADDR <ip> : Setting IP address</ip>			
SETSNMASK <subnet> : Setting subnet mask</subnet>			
SETGWADDR <gw> : Setting gateway IP address</gw>			
R			

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.



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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Avenview Status Control User Setting									MA	(RI)	(-1	61	6	
Power Control														
PowerON PowerO	FF													
Matrix Control														
OutPut Port 1:	Input Port 1	•	OutPut Port 2:	Input Port 2	Ŧ	OutPut Port 3:	Input Port 3	Ŧ	OutPut Port 4:	Input Port	t4	•		
OutPut Port 5:	Input Port 5	-	OutPut Port 6:	Input Port 6	-	OutPut Port 7:	Input Port 7	•	OutPut Port 8:	Input Port	t 8	-		
OutPut Port 9:	Input Port 9	-	OutPut Port 10:	Input Port 10	•	OutPut Port 11:	Input Port 11	•	OutPut Port 12:	Input Port	12	•		
OutPut Port 13:	Input Port 13	-	OutPut Port 14:	Input Port 14	•	OutPut Port 15:	Input Port 15	•	OutPut Port 16:	Input Port	16	•		
All OutPut Set To	Select Input Port	-												
System Reset														
Reset														





AV Connectivity, Distribution And Beyond...

TECHNICAL SUPPORT



USA Head Office

Office Avenview Corp. 275 Woodward Avenue Kenmore, NY 14217 Phone: +1.716.218.4100 ext223 Fax: +1.866.387-8764 Email: info@avenview.com

Canada Sales

Avenview 151 Esna Park Drive, Unit 11 & 12 Markham, Ontario, L3R 3B1 Phone: 1.905.907.0525 Fax: 1.866.387.8764 Email: info@avenview.com Avenview Europe Avenview Europe Demkaweg I I 3555 HW Utrecht Netherlands Phone: +31 (0)85 2100- 613 Email: info@avenview.eu Avenview Hong Kong Unit 8, 6/F., Kwai Cheong Centre, 50 Kwai Cheong Road, Kwai Chung, N.T. Hong Kong Phone: 852-3575 9585 Email: wenxi@avenview.com

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