



AV Connectivity, Distribution And Beyond...

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

## Control Commands



**Model #: HDM-SWITCHPRO-VW4**

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

## I. SERIAL PORT SETTING

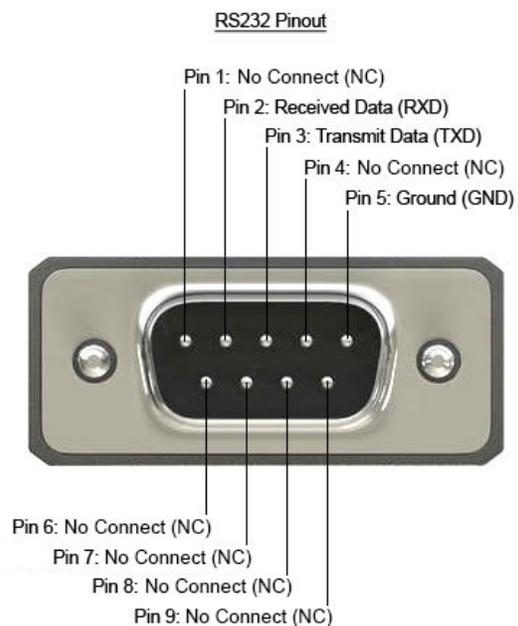
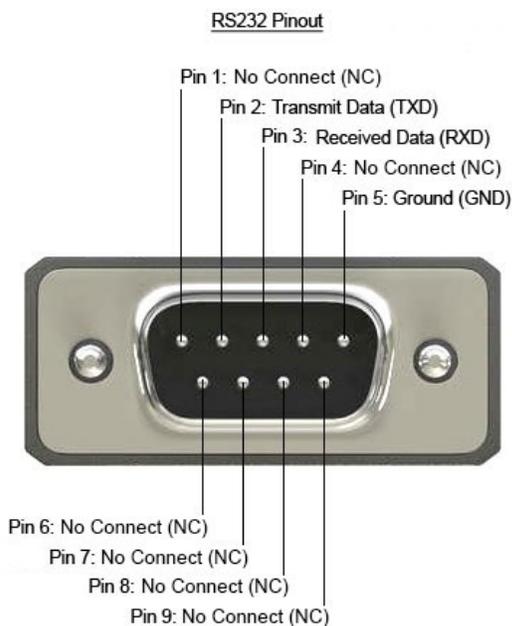
- Baud Rate: 115200bps
- Data Bit: 8 bits
- Parity: None
- Flow Control: None
- Stop Bit: 1

### RS-232 Wiring (Cross Cable Connection)

HDM-SWITCHPRO-VW4	
PIN	Assignment
1	NC
2	TxD
3	RxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

→  
←

Remote Controller(PC)	
PIN	De finition
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	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	Unit Response
<b>AUA001</b>	Dual A Audio channel in Left side	AUA001
<b>AUA002</b>	Dual A Audio channel in Right side	AUA002
<b>AUA999</b>	Check Dual A audio channel status	AUA???
<b>AUB001</b>	Dual B Audio channel in Left side	AUB001
<b>AUB002</b>	Dual B Audio channel in Right side	AUB002
<b>AUB999</b>	Check Dual B audio channel status	AUB???
<b>AUD000</b>	Audio output Off	AUD000
<b>AUD001</b>	Audio output On	AUD001
<b>AUD999</b>	Check audio on/off status	AUD???
<b>AUE000</b>	Audio edid is LPCM 2CH	AUE000
<b>AUE001</b>	Audio edid is LPCM 6CH	AUE001
<b>AUE002</b>	Audio edid is LPCM 8CH	AUE002
<b>AUE003</b>	Audio edid is BITSTREAM	AUE003
<b>AUE004</b>	Audio edid is HD	AUE004
<b>AUE999</b>	Check audio edid setting	AUE???
<b>BEZ000</b>	Bezel Correction OFF	BEZ000
<b>BEZ001</b>	Bezel Correction ON	BEZ001
<b>BEZ999</b>	Check bezel correction on/off status	BEZ???
<b>BEH???</b>	Horizontal (H) Bezel correction???=000 ~ Maximum	BEH???
<b>BEH998</b>	Check the current Horizontal(H) Bezel correction Maximum value	BEH???
<b>BEH999</b>	Check the current Horizontal(H) Bezel correction setting value	BEH???
<b>BEV???</b>	Vertical (V) Bezel correction???=000 ~ Maximum	BEV???
<b>BEV998</b>	Check the current Vertical(V) Bezel correction Maximum value	BEV???
<b>BEV999</b>	Check the current Vertical(V) Bezel correction setting value	BEV???
<b>BRI???</b>	Setting Brightness ???=000~100 for matrix mode ???=(000~100)+200*(OUT No.-1) for dual/tv wall mode For example: OUT B set the Brightness value to 57 =(57)+200*(2-1) = 257	No response



Command	Active	Unit Response
<b>BRI99?</b>	Check current Brightness value 99?=999 for matrix mode 99?=991~994=OUT1~4 for dual/tv wall mode	BRI???
<b>CAL???</b>	RECALL FAV. ???=001~004=FAV.1~4	CAL???
<b>CON???</b>	Setting Contrast	No response
<b>CON999</b>	Command setting same as Brightness (BRI)	CON???
<b>EGW999</b>	RS232 only, check current Ethernet Gateway Address	aaa.bbb.ccc.ddd
<b>EIP999</b>	RS232 only, check current Ethernet IP Address	aaa.bbb.ccc.ddd
<b>EMK999</b>	RS232 only, check current Ethernet Subnet Mask Address	aaa.bbb.ccc.ddd
<b>HUE???</b>	Setting HUE	No response
<b>HUE999</b>	Command setting same as Brightness (BRI)	HUE???
<b>INP???</b>	INPUT selection???=001~004=IN 1~4 Execute OUT???	INP???
<b>INP999</b>	Check current INPUT	INP???
<b>LCK000</b>	Un-lock	LCK000
<b>LCK001</b>	LCK	LCK001
<b>LCK999</b>	Check current Lock/un-lock status	LCK???
<b>MNE001</b>	OSD Menu EXIT	No response
<b>MND001</b>	OSD Menu DOWN	No response
<b>MNL001</b>	OSD Menu LEFT (-)	No response
<b>MNO001</b>	OSD Menu OK	No response
<b>MNR001</b>	OSD Menu RIGHT (+)	No response
<b>MNU001</b>	OSD Menu UP	No response
<b>MNX001</b>	OSD Menu	No response
<b>MOD001</b>	Matrix mode	MOD001
<b>MOD002</b>	Dual mode	MOD002
<b>MOD003</b>	TV Wall mode	MOD003
<b>MOD999</b>	Check current output mode status	MOD???
<b>OUT???</b>	OUTPUT selection???=001~004=OUT A~D	OUT???
<b>OUT999</b>	Check current OUTPUT	OUT???
<b>PWR000</b>	Power Off(Standby)	PWR000
<b>PWR000</b>	Power On	PWR001
<b>PWR999</b>	Check current power status	PWR???



Command	Active	Unit Response
<b>RES???</b>	Output resolution???=001 ~ ...corresponding osd menu list	RES???
<b>RES999</b>	Check current output resolution	RES???
<b>RST001</b>	Factory Reset	RST001
<b>RST002</b>	Picture Reset	RST002
<b>SAT???</b>	Setting Saturation	No response
<b>SAT999</b>	Command setting same as Brightness (BRI)	SAT???
<b>SAV???</b>	SAVE FAV. ???=001 ~004=FAV.1 ~4	SAV???
<b>VER999</b>	Check firmware version	VER??? Example: VER110=V1.1



### 3. 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

Main Menu		Sub Menu	Adjustments	Default			
<b>PICTURE (*1)</b>	ALL	CONTRAST	0 ~ 100	50			
		BRIGHTNESS	0 ~ 100	50			
		SATURATION	0 ~ 100	50			
		HUE	0 ~ 100	50			
	DUAL	DUAL AL					
		DUAL AR					
		DUAL BL					
		DUAL BR					
	2 x 2	OUT 1					
		OUT 2					
		OUT 3					
		OUT 4					
	D/T	RESET					
	ALL	RESET ALL					
		EXIT					
<b>OUTPUT RESOLUTION</b>	480p, 576p, 720p50, 720p60, 1080i50(*2), 1080i60, 1080p24, 1080p50, 1080p60, 1024x768, 1280x800, 1280x1024, 1366x768, 1440x900, 1600x900, 1600x1200, 1680x1050, 1920x1200						720p60
	EXIT						
<b>AUDID EDID (*3)</b>	LPCM 2CH, LPCM 6CH, LPCM 8CH, BIT-STREAM, HD						LPCM 2CH
	EXIT						



Main Menu	Sub Menu	Adjustments	Default
<b>OSD SETTINGS</b>	POSITION	<b>POSITION</b>	LEFT T
	H OFFSET	<b>0 ~ 20</b>	10
	V OFFSET	<b>0 ~ 20</b>	10
	TRANSPARENCY	<b>0 ~ 9</b>	4
	MENU TIMEOUT	<b>5 ~ 50, OFF(*4)</b>	8
	INFO.TIMEOUT	<b>5 ~ 50, OFF</b>	8
	INFO.DISPLAY	<b>ON, OFF</b>	ON
	BRIEF INFO	<b>ON, OFF</b>	OFF
	EXIT		
<b>HDCP</b>	INPUT(*5)	<b>ACCEPT, NOT ACCEPT</b>	ACCEPT
	OUTPUT(*6)	<b>FOLLOW INPUT, ALWAYS ON</b>	FOLLOW INPUT
	EXIT		
<b>BEZEL CORRECTION (*7)</b>	CORRECTION	<b>ON, OFF</b>	OFF
	H CORRECTION	<b>0 ~ BY OUTPUT RESOLUTION</b>	0
	V CORRECTION	<b>0 ~ BY OUTPUT RESOLUTION</b>	0
	EXIT		
<b>RECALL / SAVE (*8)</b>	RECALL	<b>CANCEL, FAV.1 4</b>	CANCEL
	SAVE	<b>CANCEL, FAV.1 ~ 4</b>	CANCEL
	EXIT		
<b>ETHERNET</b>	IP MODE	<b>DHCP, STATIC</b>	DHCP
	STATIC SET	<b>IP, MASK, GATE</b>	IP
	BYTE1		192
	BYTE2		168
	BYTE3		5
	BYTE4		155
	RE-LINK(*9)		
	TIMEOUT (Min.)(*10)	<b>5~60, OFF</b>	10
	EXIT		
<b>OTHERS</b>	IR ADDRESS(*11)	<b>0 ~ 3</b>	0
	EXIT		



Main Menu	Sub Menu	Adjustments	Default
<b>FACTORY DEFAULT EXIT</b>	YES, NO		NO
	EXIT		
<b>INFORMATION (*12)</b>	IN/OUT RESOLUTION, SOURCE HDCP/AUDIO, OUT MODE, FIRMWARE VER		
	EXIT		
<b>EXIT</b>			

## Note

- \*1 Picture: In Matrix mode, four pictures adjust simultaneously. In Dual/TV Wall mode, each picture can adjust individual and support individual last memory feature.
- \*2 Output: The 1080i@50 and 1080i@60 output resolutions are supported in 'Matrix' mode only. When these output resolutions are used, Input Port 4 will not function and will not be selectable in the OSD Menu. In 'Dual' or 'TV Wall' modes these output resolutions are unavailable and can not be selected in the OSD menu.
- \*3 AUDIO EDID: Embedded input audio EDID contents,
  - LPCM 2CH = LPCM 2CH
  - 14 LPCM 6CH = LPCM 2CH/ 6CH
  - LPCM 8CH = LPCM 2CH/ 6CH/ 8CH
  - BITSTREAM = LPCM 2CH, AC3, DTS
  - HD = LPCM 2CH/ 6CH/ 8CH, AC3, DTS, Dolby Digital Plus, DTS-HD
- \*4 TIMEOUT =OFF means MENU and INFO will continue showing on the screen
- \*5 HDCP INPUT: ACCEPT: Support HDCP source, this is normal source setting
  - NOT ACCEPT: Not support HDCP source. For example: Apply source.
- \*6 HDCP OUTPUT: FOLLOW INPUT: If source with HDCP the output will support HDCP. If input source without HDCP the output will not support HDCP. When in Dual mode, one of each side (Left or Right) support HDCP, the output will support HDCP.
  - ALWAYS ON: All the TV/Monitor need to support HDCP, to avoid switching source from non-HDCP to HDCP, the flashing image or no image.
- \*7 BEZEL CORRECTION: Only support in TV Wall mode, after adjustment the system will support last memory function.
- \*8 SAVE/RECALL: To SAVE/RECALL input/output setting, the system support last memory function to save all the setting.
- \*9 Ethernet RE-LINK: After the setup, need to RE-LINK the system and re-connect the system again.
- \*10 Ethernet TIMEOUT: Select OFF to end the time out function or when telnet is under idle without sending commands within the time out setting the telnet system will be terminated.
- \*11 IR ADDRESS: This setting is to match the IR remote control dip switch. Please refered to 6.31.
- \*12 INFORMATION: To show Input/Output/Audio/Mode/Firmware information. = LPCM 2CH



**Notes:**





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