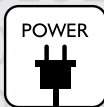




Control Your Video

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

Control Commands



Model #: SC-HBT-HDMA-8X4

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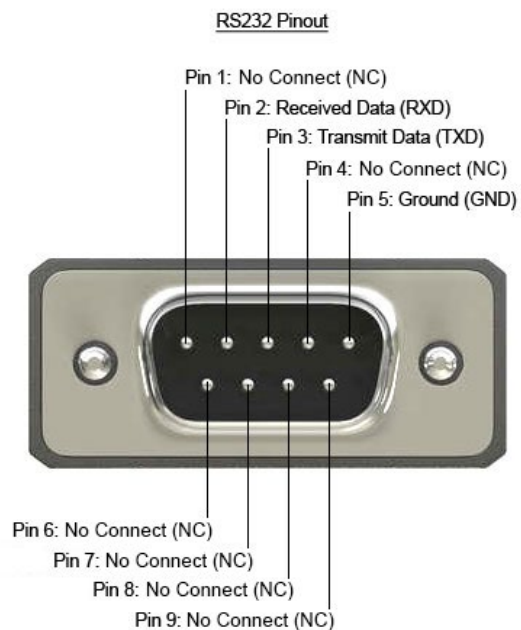
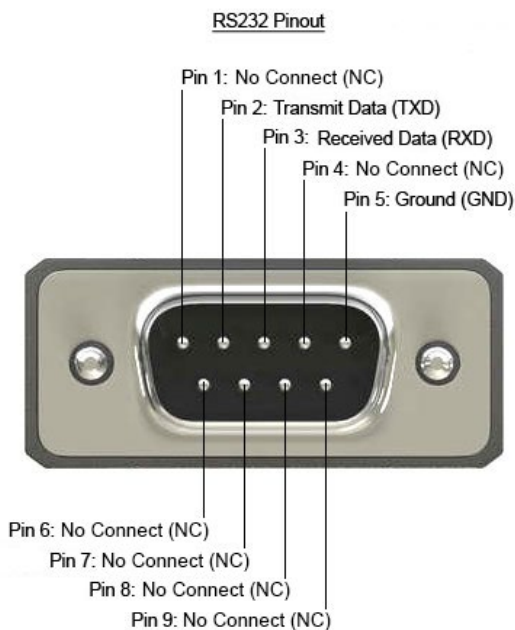
SECTION I: COMMAND PROTOCOL FORMAT (RS-232 SERIAL PORT)

I. 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	De finition
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



2. RS-232 & TELNET COMMANDS

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

COMMAND	DESCRIPTION	
S SOURCE 1~8	1=HDMI 1 2=HDMI 2 3=HDMI 3 4=HDMI 4	5=HDBT 1 6=HDBT 2 7=PC 8=VIDEO
R SOURCE	Reports the numerical equivalent for SOURCE setting (as above)	
S OUTPUT 0~21	0=640×480 1=800×600 2=1024×768 3=1280×768 4=1360×768 5=1280×720 6=1280×800 7=1280×1024 8=1440×900 9=1400×1050 10=1680×1050	11=1600×1200 12=1920×1080 13=1920×1200 14=480p 15=720p@60 16=1080i@60 17=1080p@60 18=576p 19=720p@50 20=1080i@50 21=1080p@50
R OUTPUT	Reports the numerical equivalent for OUTPUT setting (as above)	
S SIZE 0~6	0=OVERSCAN 1=FULL 2=FOLLOW INPUT 3=PAN SCAN	4=LETTER BOX 5=UNDER 2 6=UNDER 1
R SIZE	Reports the numerical equivalent for SIZE setting (as above)	
S INPUTHDCP 0/1 R INPUTHDCP	0=OFF 1=ON Reports HDMI support HDCP status	
S CONTRAST 0~60	Sets up the numerical equivalent for CONTRAST setting (as left)	
R CONTRAST	Reports the numerical equivalent for CONTRAST setting	
S BRIGHTNESS 0~60	Sets up the numerical equivalent for BRIGHTNESS setting (as left)	



2. RS-232 UART Command Illustration Diagram

COMMAND	DESCRIPTION
R BRIGHTNESS	Reports the numerical equivalent for BRIGHTNESS setting
S HUE 0~60	Setups the numerical equivalent for HUE setting (as left)
R HUE	Reports the numerical equivalent for HUE setting
S SATURATION 0~60	Setups the numerical equivalent for SATURATION setting (as left)
R SATURATION	Reports the numerical equivalent for SATURATION setting
S SHARPNESS 0~30	Setups the numerical equivalent for SHARPNESS setting (as left)
R SHARPNESS	Reports the numerical equivalent for SHARPNESS setting
S NR 0~3	0=OFF 1=LOW 2=MIDDLE 3=HIGH
R NR	Reports the numerical equivalent for the NOISE REDUCTION setting (as above)
S VOLUME 0~100 R VOLUME	Volume Value Reports Volume value
S AUDIO DELAY 0~3	0=OFF 1=40ms 2=110ms 3=150ms
R AUDIO DELAY	Reports the numeric equivalent for AUDIO DELAY setting (as above)
S AUDIO MUTE 0/1	0=ON 1=MUTE
R AUDIO MUTE	Reports the numeric equivalent for AUDIO MUTE setting (as above)
S HDMIAUDIO 0/1	0=AUTO 1=EXT.
R HDMIAUDIO	Reports HDMI AUDIO Status
S KEY LOCK 0/1	0=Disable 1=Enable
R KEY LOCK	Reports the numeric equivalent for KEY LOCK setting (as above)
S FREERUNCOLOR 0/1	0=Black 1=Blue
R FREERUNCOLOR	Reports the numeric equivalent for FREERUN Colorsetting (as above)



3. TELNET CONTROL

COMMAND	DESCRIPTION		
S HDBTUART 0/I R HDBTUART	0=HDBT 1	1=HDBT 2	
	Reports the numeric equivalent for HDBT UART setting (as above)		
S AUTO SCAN 0/I R AUTO SCAN	0=OFF	1=ON	
	Reports the numeric equivalent for AUTO SCAN setting (as above)		
S BYPASS 1~6 R BYPASS	1=HDMI 1	1=HDMI 2	3=HDMI 3
	4=HDMI 4	5=HDBT 1	6=HDBT 2
	Reports the numeric equivalent for BYPASS setting (as above) Sets up the numerical equivalent for RESET setting (as left)		
S RESET 1	Sets up the numerical equivalent for RESET setting (as left)		
S POWER 0/I	0=OFF	1=ON	
R POWER	Reports the numeric equivalent for POWER setting (as above)		
PORT 0~8	1=HDMI	2=HDMI 2	3=HDMI 3
	4=HDMI 4	5=HDBT 1	6=HDBT 2
	7=PC	8=VIDEO 0=Last Memory	
VOL +	Volume Value		
VOL -	Volume Value		
ST	FW Version & Source		

Note:

1. Only LPCM 2 channel digital audio is supported, please ensure that the source audio is set to LPCM 2 channel audio in order to avoid unnecessary audio noise.
2. RS-232 commands will be not executed unless followed with a carriage return and LF. Commands are case-insensitive.



3. OSD MENU

1 st Layer	2 nd Layer	3rd Layer	Remark
DISPLAY	OUTPUT	640X480 60	
		800x600 60	
		1024x768 60	
		1280x768 60	
		1360x768 60	
		1280x720 60	
		1280x800 60	
		1280x1024 60	
		1440x900 60	
		1400x1050 60	
		1680x1050 60	
		1600x1200 60	
		1920x1080 60	
		1920x1200 60	
		720X480P 60	
		1280X720P 60	
		1920X1080I 60	
		1920X1080P 60	
		720X576P 50	
		1280X720P 50	
1920X1080I 50			
1920X1080P 50			



DISPLAY	SIZE	OVER SCAN	
		FULL	
		FOLLOW INPUT	
		PAN SCAN	
		LETTER BOX	
		UNDER 2	
		UNDER 1	
	MODE INFO	OFF	
		INFO	
		ON	
	INPUT HDCP (HDMI mode only)	OFF	
		ON	
	PC (PC mode only)	AUTO SETUP	Yes/No(Default No)
		H_POSITION	0~60
		V_POSITION	0~60
		PHASE	0~31
		CLOCK	
		WXGA/XGA	XGA/WXGA(Default XGA)
		RESET	Yes/No(Default No)



COLOR	CONTRAST		0~60(Default 30)
	BRIGHTNESS		0~60(Default 30)
	COLOR	R	0~1023(Default 512)
		G	0~1023(Default 512)
		B	0~1023(Default 512)
		R OFFSET	0~1023(Default 512)
		G OFFSET	0~1023(Default 512)
		B OFFSET	0~1023(Default 512)
	HUE		0~60(Default 30)
	SATURATION		0~60(Default 30)
	SHARPNESS		0~30(Default 0)
	NR.	OFF	
LOW			
MIDDLE			
HIGH			
AUDIO	VOLUME		0~100(Default 100)
	DELAY	OFF	
		40mS	
		110mS	
		150mS	
	SOUND	ON	
		MUTE	
	SOURCE (HDMI mode only)	AUTO	
		EXT.	



SETUP	FACTORY RESET		OSD Setting back to factory default
	KEY LOCK	OFF	
		ON	
	POWER SAVE	OFF	
		ON	
	IP MODE	DHCP	
		STATIC	
	SET STATIC IP	IP ADDRESS	0.0.0.0~ 255.255.255.255 (Default 192.168.0.1)
		SUBNET MASK	0.0.0.0~ 255.255.255.255 (Default 255.255.255.0)
		Def. GATWAY	0.0.0.0~ 255.255.255.255 (Default 192.168.0.254)
	FREERUN COLOR	BLUE	
		BLOCK	
	MISC.	HDBTOUT (UART1)	HDBT1~2(Default HDBT1)
		Auto Scan	OFF
ON			
INFORMATION	INPUT:		
	OUTPUT:		
	REVISION:		
	IP ADDRESS:		

Default settings are underlined.





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TECHNICAL SUPPORT

CONTACT US



Phone: 1 (866) 508 0269



Email: support@avenview.com



USA Head Office Avenview Corp. 275 Woodward Avenue Kenmore, NY 14217

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 11
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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