

VW-MVIEW4X1 RS-232 Command Reference

HDMI 4×1 Quad Multi-View Seamless Switcher 4K@60 4:4:4 — command set version 1.00.04

Every function of the VW-MVIEW4X1 can be set and read over its RS-232 port, from a control system or a terminal program on a PC.

SETTING	VALUE
Port	RS-232, the 3-pin 3.81mm Phoenix connector on the rear panel (PC TX to unit RX, PC RX to unit TX, ground to ground)
Baud rate	115200 (default)
Data bits / stop bits / parity	8 / 1 / none
Command format	Plain ASCII text, ending with !. Commands starting <code>s</code> set a value; commands starting <code>r</code> read it back.
Help	<code>help!</code> lists every command the unit accepts.

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1. System

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>help!</code>	List all commands	<code>help!</code>	
<code>r type!</code>	Get device model	<code>r type!</code>	4x1 HDMI Multiviewer
<code>r fw version!</code>	Get Firmware version	<code>r fw version!</code>	MCU FW version x.xx.xx SCALER FW version x.xx.xx
<code>power z!</code>	Power on/off the device, z=0~1 (z=0 power off, z=1 power on)	<code>power 1!</code>	power on System Initializing... Initialization Finished! MCU FW version x.xx.xx SCALER FW version x.xx.xx
<code>r power!</code>	Get current power state	<code>r power!</code>	power on /power off
<code>reboot!</code>	Reboot the device	<code>reboot!</code>	Reboot... System Initializing... Initialization Finished! MCU FW version x.xx.xx SCALER FW version x.xx.xx
<code>reset!</code>	Reset to factory defaults	<code>reset!</code>	Reset to factory defaults System Initializing... Initialization Finished! MCU FW version x.xx.xx SCALER FW version x.xx.xx



2. Output

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
s output res x!	Set Output Resolution (x=1~15) 1. 4096x2160p60, 2. 4096x2160p50, 3. 3840x2160p60, 4. 3840x2160p50, 5. 3840x2160p30, 6. 3840x2160p25, 7. 1920x1200p60RB, 8. 1920x1080p60, 9. 1920x1080p50, 10. 1360x768p60, 11. 1280x800p60, 12. 1280x720p60, 13. 1280x720p50, 14. 1024x768p60, 15. AUTO, <i>Default: AUTO</i>	s output res 3!	out resolution: 3840x2160p60
r output res!	Get output resolution	r output res!	out resolution: 3840x2160p60
s output hdcx x!	set output hdcx(x=1~3) 1. HDCP 1.4 2. HDCP 2.2 3. USER MODE <i>Default: HDCP1.4</i>	s output hdcx 2!	output HDCP: HDCP 1.4
r output hdcx!	Get output hdcx status.	r output hdcx!	output HDCP: HDCP 1.4
s output vka x!	Set output video keep active pattern.(x=1~2) 1. black screen 2. blue screen <i>Default: black screen</i>	s output vka 1!	output VKA pattern: black screen
r output vka!	Get output video keep active pattern.	r output vka!	output VKA pattern: black screen
s output itc x!	Set output video mode(x=1~2) 1: video mode 2: pc mode <i>Default: video mode</i>	s output itc 1!	output ITC: video mode
r output itc!	Get output video mode	r output itc!	output ITC: video mode

3. EDID



COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s input EDID x!</code>	Set HDMI input EDID mode (x=1~19) 1. 4K2K60_444, Stereo Audio 2.0 2. 4K2K60_444, Dolby/DTS 5.1 3. 4K2K60_444, HD Audio 7.1 4. 4K2K30_444, Stereo Audio 2.0 5. 4K2K30_444, Dolby/DTS 5.1 6. 4K2K30_444, HD Audio 7.1 7. 1080P, Stereo Audio 2.0 8. 1080P, Dolby/DTS 5.1 9. 1080P, HD Audio 7.1 10. 1920x1200, Stereo Audio 2.0 11. 1680x1050, Stereo Audio 2.0 12. 1600x1200, Stereo Audio 2.0 13. 1440x900, Stereo Audio 2.0 14. 1360x768, Stereo Audio 2.0 15. 1280x1024, Stereo Audio 2.0 16. 1024x768, Stereo Audio 2.0 17. 720p, Stereo Audio 2.0 18. copy from HDMI out 19. USER1 <i>Default: 4K2K60_444, Stereo Audio 2.0</i>	<code>s input EDID 1!</code>	input EDID:4K2K60_444, Stereo Audio 2.0
<code>r input EDID!</code>	Get input EDID mode	<code>r input EDID!</code>	input EDID:4K2K60_444, Stereo Audio 2.0
<code>s edid user1 00 FF FF ...!</code>	Set user1 EDID data	<code>s edid user1 00 FF FF FF FF ...!</code>	user1 EDID data: 00 FF FF FF FF FF FF 00
<code>r edid user1!</code>	Get user1 EDID data	<code>r edid user1!</code>	user1 EDID data: 00 FF FF FF FF FF FF 00

4. Audio

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s output audio x!</code>	Set output audio source(x=0~4) 0. follow window 1 selected source 1. HDMI 1 input audio 2. HDMI 2 input audio 3. HDMI 3 input audio 4. HDMI 4 input audio <i>Default: output audio: follow window 1 selected source</i>	<code>s output audio 0!</code>	output audio: follow window 1 selected source
<code>r output audio!</code>	Get output audio source	<code>r output audio!</code>	output audio: follow window 1 video source
<code>s output audio vol+!</code>	Increase output audio volume	<code>s output audio vol+!</code>	output audio volume: 50
<code>s output audio vol-!</code>	Decrease output audio volume	<code>s output audio vol-!</code>	output audio volume: 50
<code>s output audio vol x!</code>	Set output audio volume value(x=0~100) <i>Default: 100</i>	<code>s output audio vol 30!</code>	output audio volume: 30
<code>r output audio vol!</code>	Get output audio volume	<code>r output audio vol!</code>	output audio volume: 30



continued

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s output audio mute x!</code>	Set output audio mute on/off(x=0~1) 0. mute off 1. mute on <i>Default: off</i>	<code>s output audio mute 0!</code>	output audio mute: off
<code>r output audio mute!</code>	Get output audio mute on/off	<code>r output audio mute!</code>	output audio mute: off

5. Single Screen Mode

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s auto switch x!</code>	Enable/disable auto switch feature(x=0~1) 0. Disable auto switch 1. Enable auto switch <i>Default: auto switch off</i>	<code>s auto switch 0!</code>	auto switch off
<code>r auto switch!</code>	Get auto switch feature	<code>r auto switch!</code>	auto switch off
<code>s in source x!</code>	Route input source to output(1~4) 1. HDMI 1 2. HDMI 2 3. HDMI 3 4. HDMI 4 <i>Default: HDMI 1</i>	<code>s in source 1!</code>	HDMI 1
<code>r in source!</code>	Get output selected input source	<code>r in source!</code>	HDMI 1

6. Multi-View Modes

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s multiview x!</code>	Set multi-viewer display mode(x=1~5) 1. single screen 2. PIP 3. PBP 4. triple screen 5. quad screen <i>Default: single screen</i>	<code>s multiview 1!</code>	single screen
<code>r multiview!</code>	Get multi-viewer display mode	<code>r multiview!</code>	single screen
<code>s window x in y!</code>	Select one input for one display window for the current Multiview mode. (x=1~4) 1. window 1 2. window 2 3. window 3 4. window 4 (y=1~4) 1. HDMI 1 2. HDMI 2 3. HDMI 3 4. HDMI 4	<code>s window 1 in 1!</code>	window 1 select HDMI 1
<code>r window x in!</code>	Get windows selected input source (x=0~4) 0. ALL 1. window 1 2. window 2 3. window 3 4. window 4	<code>r window 1 in!</code>	window 1 select HDMI 1



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COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
<code>s window x border y!</code>	Set the border mode of the specified window. (x=1~4) 1. window 1 2. window 2 3. window 3 4. window 4 (y=0~1) 0. off 1. on <i>Default: off</i>	<code>s window 1 border 1!</code>	window 1 border on
<code>r window x border!</code>	Get the border mode of windows (x=0~4) 0. ALL 1. window 1 2. window 2 3. window 3 4. window 4	<code>r window 1 border!</code>	window 1 border on
<code>s window x border color y!</code>	Set the border color of the specified window. (x=1~4) 1. window 1 2. window 2 3. window 3 4. window 4 (y=1~9) 1. BLACK 2. RED 3. GREEN 4. BLUE 5. YELLOW 6. MAGENTA 7. CYAN 8. WHITE 9. GRAY <i>Default: YELLOW</i>	<code>s window 1 border color 1!</code>	window 1 border color:BLACK
<code>r window x border color!</code>	Get the border color of windows (x=0~4) 0. ALL 1. window 1 2. window 2 3. window 3 4. window 4	<code>r window 1 border color!</code>	window 1 border color:BLACK
<code>s window source osd x!</code>	Set window source osd switch(x=0~1) 0. off 1. on <i>Default: off</i>	<code>s window source osd 1!</code>	window source osd: on
<code>r window source osd!</code>	Get the window source label setting	<code>r window source osd!</code>	window source osd: on
<code>s PIP Hstart Vstart Hsize Vsize!</code>	Set PIP window to user define mode Hstart=(1~100) Vstart=(1~100) Hsize=(1~100) Vsize=(1~100) NOTE:Hstart+Hsize<=101,Vstart+Vsize<=101	<code>s PIP 10 10 20 20!</code>	PIP 10 10 20 20



continued

COMMAND	DESCRIPTION	EXAMPLE	RESPONSE
s PIP position x!	Set PIP window position(x=1~5) 1. Left Top 2. Left Bottom 3. Right Top 4. Right Bottom 5. user <i>Default: PIP on right top</i>	s PIP position 3!	PIP on right top
r PIP position!	Get PIP window position	r PIP position!	PIP on right top
s PIP size x!	Set PIP window size(x=1~4) 1. small 2. middle 3. large 4. user <i>Default: PIP size: large</i>	s PIP size 3!	PIP size: large
r PIP size!	Get PIP window size	r PIP size!	PIP size: large
s PBP mode x!	Set PBP windows display mode(x=1~2) 1. PBP mode 1 2. PBP mode 2 <i>Default: PBP mode 1</i>	s PBP mode 1!	PBP mode 1
r PBP mode!	Get PBP windows display mode	r PBP mode!	PBP mode 1
s PBP aspect x!	Set PBP windows display aspect ratio(x=1~2) 1. Full screen 2. 16:9 <i>Default: PBP aspect: full screen</i>	s PBP aspect 1!	PBP aspect: full screen
r PBP aspect!	Get PBP windows display aspect ratio	r PBP aspect!	PBP aspect: full screen
s triple mode x!	Set triple windows display mode(x=1~2) 1. triple mode 1 2. triple mode 2 <i>Default: triple mode 1</i>	s triple mode 1!	triple mode 1
r triple mode!	Get triple windows display mode	r triple mode!	triple mode 1
s triple aspect x!	Set triple windows display aspect ratio(x=1~2) 1. Full screen 2. 16:9 <i>Default: triple aspect: full screen</i>	s triple aspect 1!	triple aspect: full screen
r triple aspect!	Get triple windows display aspect ratio	r triple aspect!	triple aspect: full screen
s quad mode x!	Set quad windows display mode(x=1~2) 1. quad mode 1 2. quad mode 2 <i>Default: quad mode 1</i>	s quad mode 1!	quad mode 1
r quad mode!	Get quad windows display mode	r quad mode!	quad mode 1
s quad aspect x!	Set quad windows display aspect ratio(x=1~2) 1. Full screen 2. 16:9 <i>Default: quad aspect: full screen</i>	s quad aspect 1!	quad aspect: full screen
r quad aspect!	Get quad windows display aspect ratio	r quad aspect!	quad aspect: full screen

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