

ABERMAN
professional audio-video solutions
VMV-52PIPC-DN



**5x2 UHD Seamless Switching Presentation
System with Dante & Multiview Features
User Manual Version 1.1**

ASCII Command

Serial port protocol: Baud rate: 115200 (default), Data bits: 8bit, Stop bits:1, Parity bit: none
TCP/IP protocol port: 8000

x - Parameter 1. y - Parameter 2. The end mark of command is "<CR><LF>".

Command Code	Function Description	Example	Feedback	Default Setting
System Setting				
help	Get the list of all commands	help	<pre>===== Help Info MCU 1.1.0 Web 1.1.0 Scaler 20230228-10 FPGA 1.1.0 RX 1.18.02 help Get the list of all commands r type Get device model r status Get device current status r fw version Get Firmware version =====</pre>	List all API commands
r type	Get device model	r type	VMV-52PIPC-DN	
r status	Get device current status	r status	Please refer to the note at the end of the list.	
r fw version	Get Firmware version	r fw version	MCU 1.1.0 Web 1.1.0 Scaler 20230228-10 FPGA 1.1.0 RX 1.18.02	
s power on	Power on the device	s power on	Power on System Initializing... Initialization Finished! MCU 1.1.0 Web 1.1.0 Scaler 20230228-10 FPGA 1.1.0 RX 1.18.02	
s power off	Power off the device	s power off	Power off	
r power	Get current power state	r power	power on /power off	
s reboot	Reboot the device	s reboot	Reboot... System Initializing... Initialization Finished! MCU 1.1.0 Web 1.1.0 Scaler 20230228-10 FPGA 1.1.0 RX 1.18.02	
s reset	Reset to factory defaults	s reset	Reset to factory defaults System Initializing... Initialization Finished! MCU 1.1.0 Web 1.1.0 Scaler 20230228-10 FPGA 1.1.0 RX 1.18.02	
s front button x	Set front button locked on/off (x=0~1) 1. Unlocked 2. Locked	s front button 0	Front button: Unlocked	0
r front button	Get front button locked on/off status	r front button	Front button: Unlocked	
s beep x	Set buzzer on/off (x=0~1) 1. Off 2. On	s beep 1	Beep: On	0
r beep	Get buzzer on/off status	r beep	Beep: Off	
s ir x	Set IR on/off (x=0~1) 1. Off 2. On	s ir 1	IR: On	1
r ir	Get IR on/off status	r ir	IR: Off	

Command Code	Function Description	Example	Feedback	Default Setting
s UsbcAccess Network x	Set USB-C access network feature on/off (x=0~1) 1. Off 2. On	s UsbcAccess Network 1	USB-C Access Network: On	1
r UsbcAccess Network	Get USB-C access network feature on/off	r UsbcAccess Network	USB-C Access Network: On	
s fan speed x	Set fan speed (x=0~4) 1. Auto 2. 25% 3. 50% 4. 75% 5. 100%	s fan speed 0	Fan Speed: Auto	0
r fan speed	Get fan speed	r fan speed	Fan Speed: Auto	
r temp	Get device internal temperature	r temp	Temp: 65C	
Input Setting				
s input x EDID y	Set input EDID (x=0~5) (y=1~16) x=0: all inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5 y=1: Auto (HDBT or HDMI or HDBT+HDMI) y=2: Copy HDMI OUT y=3: Copy HDBT OUT y=4: 4K2K60_444, Stereo Audio 2.0 y=5: 4K2K30_444, Stereo Audio 2.0 y=6: 1080P, Stereo Audio 2.0 y=7: 720p, Stereo Audio 2.0 y=8: 1920x1200, Stereo Audio 2.0 y=9: 1680x1050, Stereo Audio 2.0 y=10: 1600x1200, Stereo Audio 2.0 y=11: 1440x900, Stereo Audio 2.0 y=12: 1360x768, Stereo Audio 2.0 y=13: 1280x1024, Stereo Audio 2.0 y=14: 1024x768, Stereo Audio 2.0 y=15: User Defined 1 y=16: User Defined 2	s input 0 EDID 1	Input USB-C 1 EDID: Auto Input USB-C 2 EDID: Auto Input HDMI 3 EDID: Auto Input HDMI 4 EDID: Auto Input HDMI 5 EDID: Auto	1
r input x EDID	Get input EDID mode (x=0~5) x=0: all inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5	r input 0 EDID	Input USB-C 1 EDID: Auto Input USB-C 2 EDID: Auto Input HDMI 3 EDID: Auto Input HDMI 4 EDID: Auto Input HDMI 5 EDID: Auto	
r input x EdidData	Get input EDID Data (x=0~5) x=0: all inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5	r input 0 EdidData	Input USB-C 1 EDID Data: <00 FF FF FF...> Input USB-C 2 EDID Data: <00 FF FF FF...> Input HDMI 3 EDID Data: <00 FF FF FF...> Input HDMI 4 EDID Data: <00 FF FF FF...> Input HDMI 5 EDID Data: <00 FF FF FF...>	

Command Code	Function Description	Example	Feedback	Default Setting
Output Setting				
s output res x	Set Output Resolution (x=1~15) x=1: Auto x=2: 3840x2160p60 x=3: 3840x2160p50 x=4: 4096x2160p60 x=5: 4096x2160p50 x=6: 3840x2160p30 x=7: 3840x2160p25 x=8: 1920x1200p60RB x=9: 1920x1080p60 x=10: 1920x1080p50 x=11: 1360x768p60 x=12: 1280x800p60 x=13: 1280x720p60 x=14: 1280x720p50 x=15: 1024x768p60	s output res 1	Out Resolution: Auto	1
r output res	Get output resolution	r output res	Out Resolution: Auto	
s output x hdcp y	Set output (x=0~2) hdcp (y=1~3) x=0: all outputs (HDMI/HDBT) x=1: HDMI output x=2: HDBT output y=1: Auto y=2: HDCP 1.4 y=3: HDCP 2.2	s output 0 hdcp 1	Output HDMI HDCP: Auto Output HDBT HDCP: Auto	1
r output x hdcp	Get output hdcp status (x=0~2) x=0: all outputs (HDMI/HDBT) x=1: HDMI output x=2: HDBT output	r output 0 hdcp	Output All HDCP: Auto	
s output avmute x	Set output avmute on/off (x=0~1) x=0: Off x=1: On	s output avmute 1	Output AV Mute: On	0
r output avmute	Get output avmute on/off status	r output avmute	Output AV Mute: On	
s output freeze x	Set output freeze on/off (x=0~1) x=0: Off x=1: On	s output freeze 1	Output Freeze: On	0
r output freeze	Get output freeze on/off status	r output freeze	Output Freeze: On	
s output itc x	Set output video mode (x=1~2) x=1: Video mode x=2: PC mode	s output itc 1	Output ITC: Video Mode	1
r output itc	Get output video mode	r output itc	Output ITC: Video Mode	
Audio Setting				
s main in audio x	Set Main In (HDMI/USB-C In) audio from (x=1~6) x=1: Window 1 x=2: USB-C 1 x=3: USB-C 2 x=4: HDMI 3 x=5: HDMI 4 x=6: HDMI 5	s main in audio 1	Main In Audio: Window 1	1
r main in audio	Get Main In (HDMI/USB-C In) audio source	r main in audio	Main In Audio: Window 1	

Command Code	Function Description	Example	Feedback	Default Setting
s output x audio y	Set output (x=0~3) audio source from (y=1~3) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=1: Main In (HDMI/USB-C In) y=2: Line In y=3: Dante In	s output 0 audio 1	Output HDMI/HDBT Audio: Main In (HDMI/USB-C In) Output Line Audio: Main In (HDMI/USB-C In) Output Dante Audio: Main In (HDMI/USB-C In)	1
r output x audio	Get output (x=0~3) audio source x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 1 audio	Output HDMI/HDBT Audio: Main In (HDMI/USB-C In)	
s input x audio vol+	Increase input (x=0~3) audio volume x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In	s input 1 audio vol+	Input Main In (HDMI/USB-C In) Audio Volume: 50	
s input x audio vol-	Decrease input (x=0~3) audio volume x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In	s input 1 audio vol-	Input Main In (HDMI/USB-C In) Audio Volume: 50	
s input x audio vol y	Set input (x=0~3) audio volume value (y=0~100) x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In	s input 1 audio vol 50	Input Main In (HDMI/USB-C In) Audio Volume: 50	50
r input x audio vol	Get input (x=0~3) audio volume value x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In	r input 1 audio vol	Input Main(HDMI/USB-C In) Audio Volume: 50	
s input x audio mute y	Set input (x=0~3) audio mute on/off (y=0~1) x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In y=0: mute off y=1: mute on	s input 0 audio mute 1	Input Main(HDMI/USB-C In) Audio Mute: On Input Line Audio Mute: On Input Dante Audio Mute: On	0
r input x audio mute	Get input (x=0~3) audio mute on/off x=0: all inputs (HDMI/USB-C, Line, Dante) x=1: Main In (HDMI/USB-C In) x=2: Line In x=3: Dante In	r input 0 audio mute	Input Main (HDMI/USB-C In) Audio Mute: On Input Line Audio Mute: On Input Dante Audio Mute: On	

Command Code	Function Description	Example	Feedback	Default Setting
s master member x y z	Set master output member (x/y/z=0~1) x=0: Exclude HDMI/HDBT Out x=1: Include HDMI/HDBT Out y=0: Exclude Line Out y=1: Include Line Out z=0: Exclude Dante Out z=1: Include Dante Out	s master member 1 1 1	Master Member: 111	111
r master member	Get master output member	r master member	Master Member: 111	
s master audio vol+	Increase master output audio volume	s master audio vol	Master Audio Volume: 50	
s master audio vol-	Decrease master output audio volume	s master audio vol-	Master Audio Volume: 50	
s master audio vol x	Set master output audio volume value (y=0~100)	s master audio vol 50	Master Audio Volume: 50	50
r master audio vol	Get master output audio volume value	r master audio vol	Master Audio Volume: 50	
s master audio mute x	Set master output audio mute on/off (x=0~1) x=0: mute off x=1: mute on	s master audio mute 1	Master Audio Mute: On	0
r master audio mute	Get master output audio mute on/off status	r master audio mute	Master Audio Mute: On	
s output x audio vol+	Increase output (x=0~3) audio volume x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	s output 1 audio vol+	Output HDMI/ HDBT Audio Volume: 50	
s output x audio vol-	Decrease output (x=0~3) audio volume x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	s output 1 audio vol+	Output HDMI/ HDBT Audio Volume: 50	
s output x audio vol y	Set output (x=0~3) audio volume value (y=0~100) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	s output 1 audio vol 50	Output HDMI/ HDBT Audio Volume: 50	50
r output x audio vol	Get output (x=0~3) audio volume value x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 1 audio vol	Output HDMI/ HDBT Audio Volume: 50	
s output x audio mute y	Set output (x=0~3) audio mute on/off (y=0~1) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=0: mute off y=1: mute on	s output 0 audio mute 1	Output HDMI/HDBT Audio Mute: On Output Line Audio Mute: On Output Dante Audio Mute: On	0

Command Code	Function Description	Example	Feedback	Default Setting
r output x audio mute	Get output (x=0~3) audio mute on/off x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 0 audio mute	Output HDMI/HDBT Audio Mute: On Output Line Audio Mute: On Output Dante Audio Mute: On	
s output x audio mix y	Set output (x=0~3) audio mix (y=1~4) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=1: Stereo y=2: Left y=3: Right y=4: Left and Right	s output 0 audio mix 1	Output HDMI/HDBT Audio Mix: Stereo Output Line Audio Mix: Stereo Output Dante Audio Mix: Stereo	Stereo
r output x audio mix	Get output (x=0~3) audio mix mode x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 0 audio mix	Output HDMI/HDBT Audio Mix: Stereo Output Line Audio Mix: Stereo Output Dante Audio Mix: Stereo	
s output x audio delay y	Set output (x=0~3) audio delay (y=0~50) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=[0~50]: Delay Time, Millisecond	s output 0 audio delay 50	Output HDMI/HDBT Audio Delay: 50ms Output Line Audio Delay: 50ms Output Dante Audio Delay: 50ms	0
r output x audio delay	Get output (x=0~3) audio delay value x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 0 audio delay	Output HDMI/HDBT Audio Delay: 50ms Output Line Audio Delay: 50ms Output Dante Audio Delay: 50ms	
s output x audio eq y val z	Set output (x=0~3) audio GEO Index (y=1~31) to value (z=0~20) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=[1~31]: EQ Index z=[0~20]: EQ Value	s output 0 audio eq 1 val 20	Output HDMI/HDBT Audio EQ Index 1 to Value 20 Output Line Audio EQ Index 1 to Value 20 Output Dante Audio EQ Index 1 to Value 20 Output Dante Audio EQ Preset is Flat Mode	
r output x audio eq y val	Get output (x=0~3) audio GEO Index (y=1~31) value x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=[1~31]: EQ Index	r output 0 audio eq 1 val	Output HDMI/HDBT Audio EQ Index 1 to Value 20 Output Line Audio EQ Index 1 to Value 20 Output Dante Audio EQ Index 1 to Value 20	

Command Code	Function Description	Example	Feedback	Default Setting
s output x audio eq preset y	Set output (x=0~3) audio GEO to preset (y=1~6) x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out y=1: Flat y=2: Custom1 y=3: Custom2 y=4: Custom3 y=5: Custom4 y=6: Custom5	s output 0 audio eq preset 1	Output HDMI/HDBT Audio EQ Preset 1 Output Line Audio EQ Preset 1 Output Dante Audio EQ Preset 1	1
r output x audio eq preset	Get output (x=0~3) audio GEO preset x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	r output 0 audio eq preset	Output HDMI/HDBT Audio EQ Preset 1 Output Line Audio EQ Preset 1 Output Dante Audio EQ Preset 1	
s output x audio eq reset	Set output (x=0~3) audio GEO reset x=0: all outputs (HDMI/HDBT, Line, Dante) x=1: HDMI/HDBT Out x=2: Line Out x=3: Dante Out	s output 0 audio eq reset	Output HDMI/HDBT Audio EQ Reset Output Line Audio EQ Reset Output Dante Audio EQ Reset	

Single Screen Setting

s auto switch x	Enable/disable auto switch feature (x=0~1) x=0: Disable auto switch x=1: Enable auto switch	s auto switch 0	Auto Switch: Off	0
r auto switch	Get auto switch feature	r auto switch	Auto Switch: Off	
s input source x	Route input source to output (x=1~5) x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5	s input source 1	Input Source: USB-C 1	1
r input source	Get output selected input source	r input source	Input Source: USB-C 1	
s fallback input x	Set fallback input source (x=0~5) x=0: Next Input x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI 5	s fallback input 0	Fallback Input: Next Input	0
r fallback input	Get fallback input source	r fallback input	Fallback Input: Next Input	

Multiview Setting

s multiview x	Set multiview display mode (x=1~5) x=1: Single x=2: PIP x=3: PBP x=4: Triple x=5: Quad	s multiview 1	Multiview: Single	1
r multiview	Get multiview display mode	r multiview	Multiview: Single	

Command Code	Function Description	Example	Feedback	Default Setting
s window x in y	Set window (x=0~4) source from (y=1~5) x=0: All Windows x=1: Window 1 x=2: Window 2 x=3: Window 3 x=4: Window 4 y=1: USB-C 1 y=2: USB-C 2 y=3: HDMI 3 y=4: HDMI 4 y=5: HDMI 5	s window 1 in 1	Window 1 in USB-C 1	
r window x in	Get window (x=0~4) source x=0: All Windows x=1: Window 1 x=2: Window 2 x=3: Window 3 x=4: Window 4	r window 0 in	Window 1 in USB-C 1 Window 2 in USB-C 2 Window 3 in HDMI 3 Window 4 in HDMI 4	
s PIP position x	Set PIP window position (x=1~4) x=1: Left Top x=2: Left Bottom x=3: Right Top x=4: Right Bottom	s PIP position 4	PIP Position: Right Bottom	4
r PIP position	Get PIP window position	r PIP position	PIP Position: Right Bottom	
s PIP size x	Set PIP window size (x=1~3) x=1: Small x=2: Medium x=3: Large	s PIP size 3	PIP Size: Large	3
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) x=1: PBP Mode 1 x=2: PBP Mode 2	s PBP mode 1	PBP Mode: Mode 1	1
r PBP mode	Get PBP windows display mode	r PBP mode	PBP Mode: Mode 1	
s PBP aspect x	Set PBP windows display aspect ratio (x=1~2) x=1: Full screen x=2: 16:9	s PBP aspect 1	PBP Aspect: Full Screen	1
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) x=1: Triple Mode 1 x=2: Triple Mode 2	s triple mode 1	Triple Mode: Mode 1	1
r triple mode	Get triple windows display mode	r triple mode	Triple Mode: Mode 1	
s triple aspect x	Set triple windows display aspect ratio (x=1~2) x=1: Full screen x=2: 16:9	s triple aspect 1	Triple Aspect: Full Screen	1
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) x=1: Quad Mode 1 x=2: Quad Mode 2	s quad mode 1	Quad Mode: Mode 1	1
r quad mode	Get quad windows display mode	r quad mode	Quad Mode: Mode 1	

Command Code	Function Description	Example	Feedback	Default Setting
s quad aspect x	Set quad windows display aspect ratio (x=1~2) x=1: Full screen x=2: 16:9	s quad aspect 1	Quad Aspect: Full Screen	1
r quad aspect	Get quad windows display aspect ratio	r quad aspect	Quad Aspect: Full Screen	
s window x border y	Set the border(y=0~9) mode of the specified window (x=0~4) x=0: All x=1: Window 1 x=2: Window 2 x=3: Window 3 x=4: Window 4 y=0: Off y=1: Black y=2: Red y=3: Green y=4: Blue y=5: Yellow y=6: Magenta y=7: Cyan y=8: White y=9: Gray	s window 0 border 0	Window 1 Border: Off Window 2 Border: Yellow Window 3 Border: Off Window 4 Border: Cyan	0,0
r window x border	Get the border mode of the specified window (x=0~4) x=0: All x=1: Window 1 x=2: Window 2 x=3: Window 3 x=4: Window 4	r window 0 border	Window 1 Border: Off Window 2 Border: Yellow Window 3 Border: Off Window 4 Border: Cyan	

RX Setting

s rx input x	Set RX input source (x=1~2) x=1: HDBT IN x=2: HDMI IN	s rx input 1	RX Input: HDBT Error,RX not ready!	1
r rx input	Get RX input source	r rx input	RX Input: HDBT	
r rx hdmi5v	Get RX HDMI input power 5V	r rx hdmi5v	RX HDMI 5V: 1	
r rx host5v	Get RX USB host power 5V	r rx host5v	RX Host 5V: 1	
s rx auto switch mode x	Set RX Auto Switch detection mode (x=1~2) x=1: TMDS x=2: 5V	s rx auto switch mode 1	RX Auto Switch Mode: TMDS	1
r rx auto switch mode	Get RX Auto Switch detection mode	r rx auto switch mode	RX Auto Switch Mode: TMDS	
s rx auto switch x	Set RX Auto Switch on/off (x=0~1) x=0: Off x=1: On	s rx auto switch 1	RX Auto Switch: On	1
r rx auto switch	Get RX Auto Switch on/off	r rx auto switch	RX Auto Switch: On	

CEC Setting

s cec power on	Set CEC power on command	s cec power on	CEC Power On	
s cec power off	Set CEC power off command	s cec power off	CEC Power Off	
s auto power feature x	Set display auto power feature on/off (x=0~1) x=0: Off x=1: On	s auto power feature 1	Auto Power Feature: On	1
r auto power feature	Get display auto power feature on/off status	r auto power feature	Auto Power Feature: On	

Command Code	Function Description	Example	Feedback	Default Setting
s auto power off timer x	Set auto power off command (CEC/RS-232) will be sent out after x (x=1~6) x=1: 5 sec x=2: 10 sec x=3: 30 sec x=4: 1 min x=5: 5 min x=6: 10 min	s auto power off timer 4	Auto Power Off Timer: 1 min	4
r auto power off timer	Get auto power off timer	r auto power off timer	Auto Power Off Timer: 1 min	
s auto power control x	Set auto power feature control via (x=1~3) x=1: CEC x=2: RS-232 x=3: CEC and RS-232	s auto power control 1	Auto Power Control: CEC	1
r auto power control	Get auto power feature control type	r auto power control	Auto Power Control: CEC	
USB Setting				
s UsbSwitchMode x	Set USB switch mode (x=1~3) x=1: Auto mode (detect USB 5V then switch) x=2: Manual mode x=3: Follow video (HDMI 3 bind with USB Host 3)	s UsbSwitchMode 1	UsbSwitchMode: Auto mode	1
r UsbSwitchMode	Get USB switch mode	r UsbSwitchMode	UsbSwitchMode: Auto mode	
s UsbManual x	Set USB manual switch (x=1~3) x=1: USB-C 1 x=2: USB-C 2 x=3: USB Host 3	s UsbManual 3	UsbManual: USB Host 3	1
r UsbSwitchStatus	Get USB switch status	r UsbSwitchStatus	UsbSwitchStatus: USB-C 1	
RS-232 Setting				
s serial x setting y	Set serial port (x=0~2) setting to y x=0: All RS-232 (Local and HDBT) x=1: Local RS-232 x=2: HDBT RS-232 y= 115200-8n1 Baud rate: 115200/57600/56000/38400/19200/9600/4800/2400 Data bits: 7/8 Parity: n(None)/o(Odd) /e(Even) Stop bits: 1/2	s serial 0 setting 115200-8n1	Local RS-232: 115200-8n1 HDBT RS-232: 115200-8n1	115200-8n1
r serial x setting	Get serial port (x=0~2) setting x=0: All RS-232 (Local and HDBT) x=1: Local RS-232 x=2: HDBT RS-232	r serial 0 setting	Local RS-232: 115200-8n1 HDBT RS-232: 115200-8n1	
Preset Setting				
s preset save x	Save the current unit's settings to the specified preset (x=1~5) All settings except network setting. x=1: Preset 1 x=2: Preset 2 x=3: Preset 3 x=4: Preset 4 x=5: Preset 5	s preset save 1	Preset Save: Preset 1	

Command Code	Function Description	Example	Feedback	Default Setting
s preset recall x	Recall a specified preset into unit (x=1~5) All settings except network setting. x=1: Preset 1 x=2: Preset 2 x=3: Preset 3 x=4: Preset 4 x=5: Preset 5	s preset recall 1	Preset Recall: Preset 1	
s preset clear x	Clear a specified preset into unit (x=1~5) All settings except network setting. x=1: Preset 1 x=2: Preset 2 x=3: Preset 3 x=4: Preset 4 x=5: Preset 5	s preset clear 1	Preset Clear: Preset 1	
s preset x name y	Set preset (x=1~5) name to y (16 characters max) x=1: Preset 1 x=2: Preset 2 x=3: Preset 3 x=4: Preset 4 x=5: Preset 5	s preset 1 name MeetingRoom 1	Preset 1 Name: MeetingRoom 1	
r preset x name	Get preset (x=1~5) name x=1: Preset 1 x=2: Preset 2 x=3: Preset 3 x=4: Preset 4 x=5: Preset 5	r preset x name	Preset 1 Name: MeetingRoom 1	

Network Setting

r ipconfig	Get the Current IP Configuration	r ipconfig	IP Mode: DHCP IP: 192.168.62.106 Subnet Mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	default static IP is 192.168.0.100/255.255.0.0/192.168.0.1
r mac addr	Get network MAC address	r mac addr	MAC: 6C:DF:FB:0C:B3:8E	
s ip mode x	Set network IP mode to static IP or DHCP (x=0~1) x=0: Static x=1: DHCP	s ip mode 0	IP mode: Static (Please use "s net reboot!" command or repower device to apply new config!)	1
r ip mode	Get network IP mode	r ip mode	IP mode: DHCP	
s ip addr xxx.xxx.xxx.xxx	Set network IP address	s ip addr 192.168.1.100	IP address: 192.168.1.100 (Please use "s net reboot!" command or repower device to apply new config!) DHCP on, Device can't config static address, set DHCP off first.	
r ip addr	Get network IP address	r ip addr	IP: 192.168.62.106	

Command Code	Function Description	Example	Feedback	Default Setting
s subnet xxx.xxx.xxx.xxx	Set network subnet mask	s subnet 255.255.255.0	Subnet Mask: 255.255.255.0 (Please use "s net reboot!" command or repower device to apply new config!) DHCP on, Device can't config subnet mask, set DHCP off first.	
r subnet	Get network subnet mask	r subnet	Subnet Mask: 255.255.255.0	
s gateway xxx.xxx.xxx.xxx	Set network gateway	s gateway 192.168.1.1	Gateway: 192.168.1.1 (Please use "s net reboot!" command or repower device to apply new config!) DHCP on, Device can't config gateway, set DHCP off first.	
r gateway	Get network gateway	r gateway	Gateway: 192.168.1.1	
s tcp/ip port x	Set network TCP/IP port (x=1~65535)	s tcp/ip port 8000	TCP/IP port: 8000	8000
r tcp/ip port	Get network TCP/IP port	r tcp/ip port	TCP/IP port: 8000	
s telnet port x	Set network telnet port (x=1~65535)	s telnet port 23	Telnet port: 23	23
r telnet port	Get network telnet port	r telnet port	Telnet port: 23	
s net reboot	Reboot network modules	s net reboot	Search for IP, Please wait ...! IP Mode: DHCP IP: 192.168.62.106 Subnet Mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	
Password Setting				
s admin password x	Set admin login password (x=[16 characters max])	s admin password admin	admin password: admin	admin
r admin password	Get admin login password	r admin password	admin password: admin	
s user password x	Set user login password (x=[16 characters max])	s user password user	user password: user	user
r user password	Get user login password	r user password	user password: user	

NOTE: The feedback of the command of “r status” is as following.

Status Info									
TX 1.01.04 Web check Scaler 20230626-15 FPGA 2.00.05 RX 1.18.02									
Input	Cable	Resolution			ColorSpace	ColorDepth	HDCP	EDID	
USB-C 1	Connected	1920x1080p60			RGB	8bit	1.4	AUTO	
USB-C 2	Connected	1920x1080p60			RGB	8bit	1.4	4K2K60_444, Stereo Audio 2.0	
HDMI 3	Connected	3840x2160p60			RGB	8bit	2.2	AUTO	
HDMI 4	Connected	3840x2160p60			YUV 4:4:4	8bit	Off	User Defined 2	
HDMI 5	Disconnect	None			None	None	None	AUTO	
Output	Cable	Resolution			ColorSpace	ColorDepth	HDCP	AVMute	Source
HDMI OUT	Connected	3840x2160p60Hz			RGB	8bit	2.2	On	1/2/3/4
HDBT OUT	Connected	3840x2160p60Hz			RGB	8bit	2.2	On	1/2/3/4
Power On	Key On	Beep Off	IR On	UsbcAccessNetwork On		FanSpeed Auto	Temp(C) 65	Baud 115200	
TCP/IP 8000	Telnet 0023	MAC 6C:DF:FB:0C:B3:8E							
DHCP On	IP 192.168.062.111		Gateway 192.168.062.001		SubnetMask 255.255.000.000				
(Static:	192.168.000.100		192.168.000.001		255.255.000.000)				

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