



ReThink

There's a better way.

RAV-MV-4x2HU-Tx/Rx

RS-232 Control Commands

RAV-MV-4x2HU-TxRx

4x2 Multi Viewer Presentation Switcher with HDBaseT

Magni family of matrix switchers



RS-232 Connection

Baud rate: 115,200 (Fixed)

IP Control: TCP/IP Port 8000

Data bits: 8

Stop bits: 1

Parity: None

Flow control: None

The product supports RS-232 command control.

- Connect the RS-232 CTL port of the product to a PC or control system with a 3-pin phoenix connector cross-cable and an RS-232 to USB cable.



- Connect to IP Address and Port of the product from a PC or control system.

RS-232 Commands

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				
?	Get the list of all commands	?		
help	Get the list of all commands	help		
get model	Get device model	get model	PS42KVM	

status	Get device current status	status	Please refer to the note at the end of the list.	
get version	Get Firmware version	get version	MCU 1.1.0 Web 1.1.0 FPGA 1.1.0 RX 1.18.02	
power on	Power on the device	power on	Power on System Initializing... Initialization Finished! MCU 1.1.0 Web 1.1.0 FPGA 1.1.0 RX 1.18.02	
power off	Power off the device	power off	Power off	
get power	Get current power state	get power	power on /power off	
reboot	Reboot the device	reboot	Reboot... System Initializing... Initialization Finished! MCU 1.1.0 Web 1.1.0 FPGA 1.1.0 RX 1.18.02	
reset	Reset system settings to default (Should type "Yes" to confirm, "No" to discard)	reset	Sure to Reset System Settings To Default? Type "Yes" after next prompt to confirm...	
reset all	Reset system and network settings to default (Should type "Yes" to confirm, "No" to discard)	reset all	Sure to Reset System and Network Settings To Default? Type "Yes" after next prompt to confirm...	

s front button x	Set front button locked on/off (x=0~1) x=0: Unlocked x=1: Locked	s front button 0	Set front button unlocked	0
get front button	Get front button locked on/off status	get front button	Unlocked	
set beep x	Set buzzer on/off (x=0~1) x=0: Off x=1: On	set beep 0	Set beep off	0
get beep	Get buzzer on/off status	get beep	Off	
set ir x	Set IR on/off (x=0~1) x=0: Off x=1: On	set ir 1	Set IR on	1
get ir	Get IR on/off status	get ir	On	
set UsbcAccess Network x	Set USB-C (x=0~3) access network feature x=0: All USB-C Inputs x=1: USB- C 1 x=2: USB-C 2 x=3: None	set UsbcAccess Network 0	Set all USB-C inputs access network	1
get UsbcAccess Network	Get USB-C access network feature status	get UsbcAccess Network	All USB-C inputs	
set fan speed x	Set fan speed (x=0~4) x=0: Auto x=1: 25% x=2: 50% x=3: 75% x=4: 100%	set fan speed 0	Set fan speed auto	0
get fan speed	Get fan speed	get fan speed	Auto	
get temp	Get device internal temperature	get temp	65C	

Command Code	Function Description	Example	Feedback	Default Setting
get uptime	Get device running time (Day:Hour:Min:Sec)	get uptime	000:00:13:04	
Input Setting				
set input x edid y	Set input (x=0~4) EDID (y=1~17) x=0: All Inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 y=1: Auto (HDBT or HDMI or HDBT+HDMI) y=2: Copy HDMI Out 1 y=3: Copy HDMI Out 2 y=4: Copy HDBT Out 2 y=5: 4K2K60_444, Stereo Audio 2.0 y=6: 4K2K30_444, Stereo Audio 2.0 y=7: 1080P, Stereo Audio 2.0 y=8: 720p, Stereo Audio 2.0 y=9: 1920x1200, Stereo Audio 2.0 y=10: 1680x1050, Stereo Audio 2.0 y=11: 1600x1200, Stereo Audio 2.0 y=12: 1440x900, Stereo Audio 2.0 y=13: 1360x768, Stereo Audio 2.0 y=14: 1280x1024, Stereo Audio 2.0 y=15: 1024x768, Stereo Audio 2.0 y=16: User Defined 1 y=17: User Defined 2	set input 0 edid 1	Set USB-C 1 EDID auto Set USB-C 2 EDID auto Set HDMI 3 EDID auto Set HDMI 4 EDID auto	1
get input x edid	Get input (x=0~4) EDID mode x=0: All Inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4	get input 0 edid	USB-C 1 EDID auto USB-C 2 EDID auto HDMI 3 EDID auto HDMI 4 EDID auto	
set user edid x <y>	Set user defined EDID (x=1~2) x=1: User Defined 1 x=2: User	set user edid 1	User defined 1 EDID is loaded successfully	

	Defined 2 y = 00 FF FF FF (y is 256 bytes EDID data)	<00 FF FF FF....>		
get edid data x	Get EDID data (x=1~9) x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 x=5: HDMI out 1 x=6: HDMI out 2 x=7: HDBT out 2 x=8: User Defined 1 x=9: User Defined 2	get edid data 1	USB-C 1 EDID Data <00 FF FF FF....>	
set input x hdcp y	Set input (x=0~4) HDCP on/off x=0: All Inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4 y=0: Off y=1: On	set input 0 hdcp 1	Set input USB-C 1 HDCP on Set input USB-C 2 HDCP on Set input HDMI 3 HDCP on Set input HDMI 4 HDCP on	1
get input x hdcp	Get input (x=0~4) HDCP on/off status x=0: All Inputs x=1: USB-C 1 x=2: USB-C 2 x=3: HDMI 3 x=4: HDMI 4	get input 0 hdcp	Input USB-C 1 HDCP on Input USB-C 2 HDCP on Input HDMI 3 HDCP on Input HDMI 4 HDCP on	

Command Code	Function Description	Example	Feedback	Default Setting
Output Setting				
set output x res y	Set output (x=0~3) resolution (y=1~16) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2 y=1: Auto y=2: 3840x2160p60 y=3: 3840x2160p50 y=4: 4096x2160p60 y=5: 4096x2160p50 y=6: 3840x2160p30 y=7: 1920x1080p60 y=8: 1920x1080p50 y=9: 1920x1080i60 y=10: 1920x1080i50 y=11: 1280x720p60 y=12: 1280x720p50 y=13: 1360x768p60 y=14: 1280x800p60 y=15: 1920x1200p60RB y=16: 1024x768p60	set output 0 res 1	Set all outputs resolution auto	1
get output x res	Get output (x=0~3) resolution x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2	get output 0 res	HDMI out 1 resolution auto HDMI out 2 resolution auto HDBT out 2 resolution auto	
set output x hdcp y	Set output (x=0~3) hdcp mode (y=1~3) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2 y=0: Reserved y=1: Auto y=2: HDCP 1.4 y=3: HDCP 2.2	set output 0 hdcp 1	Set all outputs HDCP auto	1
get output x hdcp	Get output (x=0~3) hdcp mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI	get output 0 hdcp	HDMI out 1 HDCP auto	

	Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2		HDMI out 2 HDCP auto HDBT out 2 HDCP auto	
set output x enable y	Set output (x=0~3) enable on/off x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2 y=0: Off y=1: On	set output 0 enable 1	Set all outputs enable on	1
get output x enable	Get output (x=0~3) enable on/ off status x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2	get output 0 enable	HDMI out 1 enable on HDMI out 2 enable on HDBT out 2 enable on	

Command Code	Function Description	Example	Feedback	Default Setting
set output x avmute y	Set output (x=0~3) avmute on/off x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2 y=0: Off y=1: On	set output 0 avmute 1	Set all outputs avmute on	0
get output x avmute	Get output (x=0~3) avmute on/off status x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2	get output 0 avmute	HDMI out 1 avmute on HDMI out 2 avmute on HDBT out 2 avmute on	
set output x freeze y	Set output (x=0~3) freeze on/off x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2 y=0: Off y=1: On	set output 0 freeze 1	Set all outputs freeze on	0

get output x freeze	Get output (x=0~3) freeze on/off status x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI Out 2 x=3: HDBT Out 2	get output 0 freeze	HDMI out 1 freeze on HDMI out 2 freeze on HDBT out 2 freeze on	
Video Setting				
set output x display y	Set output (x=0~2) display mode (y=1~23) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: Auto y=2: Single y=3: Dual-LR y=4: Dual-TB y=5: PIP-LT y=6: PIP-LB y=7: PIP-RT y=8: PIP-RB y=9: Triple-L y=10: Triple- R y=11: Triple-T y=12: Triple- B y=13: Quad-L y=14: Quad- R y=15: Quad-T y=16: Quad- B y=17: Quad-S y=18: Copy Output 2 or Copy Output 1 y=19: Custom Layout 1 y=20: Custom Layout 2 y=21: Custom Layout 3 y=22: Custom Layout 4 y=23: Custom Layout 5	set output 1 display 1	Set HDMI out 1 display auto	1

get output x display	Get output (x=0~2) display mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 display	HDMI out 1 display auto	
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Command Code	Function Description	Example	Feedback	Default Setting
set output auto switch mode y	Set output auto switch detection mode (y=1~2) y=1: Signal y=2: Source 5V	set output auto switch mode 1	Set outputs auto switch mode signal	1
get output auto switch mode	Get output auto switch detection mode	get output auto switch mode	Signal	
set output x fallback input y	Set output (x=0~2) fallback input source (y=0~5) when active signal is removed in single source auto switching mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=0: Next Input y=1: USB-C 1 y=2: USB-C 2 y=3: HDMI 3 y=4: HDMI 4 y=5: RX HDMI	set output 1 fallback input 1	Set HDMI out 1 fallback next input	0
get output x fallback input	Get output (x=0~2) fallback input source x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 fallback input	HDMI out 1 fallback next input	

set output x auto layout y	Set output (x=0~2) auto switch layout mode (y=1~2) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: Single Source y=2: Multiview	set output 1 auto layout 1	Set HDMI out 1 auto layout single source	1
get output x auto layout	Get output (x=0~2) auto switch layout mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 auto layout	HDMI out 1 auto layout single source	
set output x auto dual y	Set output (x=0~2) auto switch dual layout mode (y=1~7) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: Dual-LR (Left-by-Right) y=2: Dual-TB (Top-by- Bottom) y=3: PIP-LT (Left-by-Top) y=4: PIP- LB (Left-by-Bottom) y=5: PIP-RT (Right-by- Top) y=6: PIP-RB (Right- by-Bottom) y=7: Dual User Defined	set output 1 auto dual 1	Set HDMI out 1 auto Dual-LR (Left-by- Right)	1
get output x auto dual	Get output (x=0~2) auto switch dual layout mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 auto dual	HDMI out 1 auto Dual-LR (Left-by-Right)	

Command Code	Function Description	Example	Feedback	Default Setting
set output x auto triple y	Set output (x=0~2) auto switch triple layout mode (y=1~5) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: Triple-L (Left) y=2: Triple-R (Right) y=3: Triple- T (Top) y=4: Triple- B (Bottom) y=5: Triple User Defined	set output 1 auto triple 1	Set HDMI out 1 auto Triple-L (Left)	1
get output x auto triple	Get output (x=0~2) auto switch triple layout mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 auto triple	HDMI out 1 auto Triple-L (Left)	
set output x auto quad y	Set output (x=0~2) auto switch quad layout mode (y=1~5) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: Quad-L (Left) y=2: Quad-R (Right) y=3: Quad-T (Top) y=4: Quad-B (Bottom) y=5: Quad-S (Square) y=6: Quad User Defined	set output 1 auto quad 5	Set HDMI out 1 auto Quad-S (Square)	5
get output x auto quad	Get output (x=0~2) auto switch quad layout mode x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 auto quad	HDMI out 1 auto Quad-S (Square)	

set output x source y set output x source y1 y2 y3 y4	Set output (x=0~2) video source from (y=1~4) x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 y=1: USB-C 1 y=2: USB- C 2 y=3: HDMI 3 y=4: HDMI 4 y1 for Window 1 y2 for Window 2 y3 for Window 3 y4 for Window 4	set output 1 source 1 set output 1 source 1 2 3 4	Set HDMI out 1 video source USB- C 1 Set HDMI out 1 video source USB- C 1 USB-C 2 HDMI 3 HDMI 4	1
get output x source	Get output (x=0~2) video source x=0: All Outputs (HDMI/HDBT) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 source	HDMI out 1 video source USB-C 1	

Command Code	Function Description	Example	Feedback	Default Setting
set custom layout x <x1,y1,h1,v1> <x2,y2,h2,v2> <x3,y3,h3,v3> <x4,y4,h4,v4> layer l1 l2 l3 l4 display d1 d2 d3 d4 source s1 s2 s3 s4	Set custom layout (x=1~5) parameters x=1: Custom Layout 1 x=2: Custom Layout 2 x=3: Custom Layout 3 x=4: Custom Layout 4 x=5: Custom Layout 5 <x,y,h,v> x1/x2/x3/x4=[- 4095~4095]: X coordinate of window 1/2/3/4 top-left corner y1/y2/y3/y4=[- 2159~2159]: Y coordinate of window 1/2/3/4 top-left corner h1/h2/h3/h4=[1~4096]: The horizontal size of	set custom layout 1 <0,0,1920,1080> <320,320,1920, 1080> <640,640, 1920,1080> <960, 960,1920,1080> layer 1 2 3 4 display 1 1 1 1 source 1 2 3 4	Set custom layout 1 Window 1: <0,0,1920,1080> Layer: 1 Display: on Source: USB-C 1 Window 2: <320,320,1920,1080> Layer: 2 Display: on Source: USB-C 2 Window 3: <640,640,1920,1080> Layer: 3 Display: on Source: HDMI 3 Window 4: <960,960,1920,1080> Layer: 4 Display: on Source: HDMI 4	

	window 1/2/3/4 v1/v2/v3/v4=[1~2160]: The vertical size of window 1/2/3/4 Layer: l1/l2/l3/l4 l1/l2/l3/l4=[1~4]: The layer of window 1/2/3/4 (1 is the topmost layer, 4 is the bottommost layer) Display: d1/d2/d3/d4 d1/d2/d3/d4=[1111]: Set window 1/2/3/4 display(1) or hidden(0) Source: s1/s2/s3/s4 s1/s2/s3/s4=[1~4]: Select window 1/2/3/4 input source s=1: USB-C 1 s=2: USB-C 2 s=3: HDMI 3 s=4: HDMI 4			
set window x border y	Set the border (y=0~9) mode of the specified window(x=0~4) x=0: All Windows 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	set window 0 border 0	Set all windows border off	0, 0

get window x border	Get the border mode of the specified window(x=0~4) x=0: All Windows x=1: Window 1 x=2: Window 2 x=3: Window 3 x=4: Window 4	get window 0 border	Window 1 border off Window 2 border off Window 3 border off Window 4 border off	
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Command Code	Function Description	Example	Feedback	Default Setting
Audio Setting				
set output main x audio y	Set main audio (x=1~2) from (y=1~5) x=1: Main In 1 x=2: Main In 2 y=1: Follow HDMI Out 1 video/ Follow HDMI/HDBT Out 2 video y=2: USB-C In 1 y=3: USB-C In 2 y=4: HDMI In 3 y=5: HDMI In 4	set output main 1 audio 1 set output main 2 audio 1	Set main out 1 audio follow HDMI out 1 video Set main out 2 audio follow HDMI/HDBT out 2 video	1
get output main x audio	Get main audio (x=1~2) source x=1: Main In 1 x=2: Main In 2	get output main 1 audio	Follow HDMI out 1 video	
set output x audio y set output x audio y1 y2... gain z1 z2...	Set output (x=1~4) audio from (y=1~4) with gain value z=[-100dB~+6dB] x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=1: Main In 1 y=2: Main In 2 y=3: Line In y=4: Dante In z=[-100dB~+6dB]: Gain value	set output 1 audio 1 set output 1 audio 1 gain +6dB set output 1 audio 1 6 gain 0dB 0dB	Set HDMI out 1 audio main in 1 Set HDMI out 1 audio main in 1 gain +6dB Set HDMI out 1 audio main in 1 line in gain 0dB 0dB	1, 0dB

get output x audio	Get output (x=0~4) audio source x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	get output 1 audio	HDMI out 1 audio no enable	
set output x audio follow y	Set output (x=1~2) audio follow (y=1~2) x=1: Line Out x=2: Dante Out y=1: HDMI Out 1 y=2: HDMI/HDBT Out 2	set output 1 audio follow 2	Set line out follow HDMI/HDBT out 2	2
get output x audio follow	Get output (x=1~2) audio follow which source x=1: Line Out x=2: Dante Out	get output 1 audio follow	Follow HDMI/HDBT out 2	
set input x audio vol+	Increase input (x=0~4) audio volume x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In	set input 1 audio vol+	Increase main in 1 volume 51	
set input x audio vol-	Decrease input (x=0~4) audio volume x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In	set input 1 audio vol-	Decrease main in 1 volume 49	

Command Code	Function Description	Example	Feedback	Default Setting
set input x audio vol y	Set input (x=0~4) audio volume value (y=0~100) x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In	set input 1 audio vol 50	Set main in 1 volume 50	50
get input x audio vol	Get input (x=0~4) audio volume value x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In	get input 1 audio vol	Main in 1 volume 50	
set input x audio mute y	Set input (x=0~4) audio mute on/ off (y=0~1) x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In y=0: mute off y=1: mute on	set input 1 audio mute 1	Set main in 1 audio mute on	0
get input x audio mute	Get input (x=0~4) audio mute on/ off status x=0: All Inputs (Main In 1/2, Line, Dante) x=1: Main In 1 x=2: Main In 2 x=3: Line In x=4: Dante In	get input 1 audio mute	Main in 1 audio mute on	
set master member x y z k	Set master output member (x/y/z/k=0~1) x=0: Exclude HDMI Out 1 x=1: Include HDMI Out 1 y=0: Exclude HDMI/HDBT Out 2 y=1: Include HDMI/HDBT Out 2 z=0: Exclude Line Out z=1: Include Line Out k=0:	set master member 1 1 1 1	Set master member 1111	1111

	Exclude Dante Out k=1: Include Dante Out			
get master member	Get master output member	get master member	1111	
set master audio vol+	Increase master output audio volume	set master audio vol+	Increase master volume 51	
set master audio vol-	Decrease master output audio volume	set master audio vol-	Decrease master volume 49	
set master audio vol x	Set master output audio volume value (x=0~100)	set master audio vol 50	Set master volume 50	50
get master audio vol	Get master output audio volume value	get master audio vol	Master volume 50	
set master audio mute x	Set master output audio mute on/ off (x=0~1) x=0: mute off x=1: mute on	set master audio mute 1	Set master mute on	0
get master audio mute	Get master output audio mute on/off status	get master audio mute	Master mute on	

Command Code	Function Description	Example	Feedback	Default Setting
set output x audio vol+	Increase output (x=0~4) audio volume x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	set output 1 audio vol+	Increase HDMI out 1 volume 51	
set output x audio vol-	Decrease output (x=0~4) audio volume x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out	set output 1 audio vol-	Decrease HDMI out 1 volume 49	

	1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out			
set output x audio vol y	Set output (x=0~4) audio volume value (y=0~100) x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	set output 1 audio vol 50	Set HDMI out 1 volume 50	50
get output x audio vol	Get output (x=0~4) audio volume value x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	get output 1 audio vol	HDMI out 1 volume 50	
set output x audio mute y	Set output (x=0~4) audio mute on/off (y=0~1) x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=0: mute off y=1: mute on	set output 1 audio mute 1	Set HDMI out 1 mute on	0
get output x audio mute	Get output (x=0~4) audio mute on/off x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2	get output 1 audio mute	HDMI out 1 mute on	

	x=3: Line Out x=4: Dante Out			
set output x audio mix y	Set output (x=0~4) audio mix (y=1~4) x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=1: Stereo y=2: Left y=3: Right y=4: Left and Right	set output 1 audio mix 1	Set HDMI out 1 mix stereo	Stereo

Command Code	Function Description	Example	Feedback	Default Setting
get output x audio mix	Get output (x=0~4) audio mix mode x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	get output 1 audio mix	HDMI out 1 mix stereo	
set output x audio delay y	Set output (x=0~4) audio delay (y=0~50) x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	set output 1 audio delay 50	Set HDMI out 1 audio delay 50ms	0

	y=[0~50]: Delay Time, Millisecond			
get output x audio delay	Get output (x=0~4) audio delay value x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	get output 1 audio delay	HDMI out 1 audio delay 50ms	
set output x audio eq y val z	Set output (x=0~4) audio GEQ index (y=1~31) to value z=[-10dB~+10dB] x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=[1~31]: GEQ index z=[-10dB~+10dB]: GEQ value	set output 1 audio eq 1 val -10dB	Set HDMI out 1 audio GEQ index 1 value -10dB	
get output x audio eq y val	Get output (x=0~4) audio GEQ index (y=1~31) value x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=[1~31]: GEQ index	get output 1 audio eq 1 val	HDMI out 1 audio GEQ index 1 value -10dB	
	Set output (x=0~4) audio GEQ to preset (y=1~6) x=0: All Outputs (HDMI/HDBT, Line,			

set output x audio eq preset y	Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out y=1: Flat y=2: Custom1 y=3: Custom2 y=4: Custom3 y=5: Custom4 y=6: Custom5	set output 1 audio eq preset 1	Set HDMI out 1 audio GEQ preset 1	1
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Command Code	Function Description	Example	Feedback	Default Setting
get output x audio eq preset	Get output (x=0~4) audio GEQ preset x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	get output 1 audio eq preset	HDMI out 1 audio GEQ preset 1	
set output x audio eq reset	Set output (x=0~4) audio GEQ reset x=0: All Outputs (HDMI/HDBT, Line, Dante) x=1: HDMI Out 1 x=2: HDMI/HDBT Out 2 x=3: Line Out x=4: Dante Out	set output 1 audio eq reset	Set HDMI out 1 audio GEQ reset	
RX Setting				
set rx input x	Set RX input source (x=1~2)	set rx input 1	Set RX HDBT in Error,RX not ready!	1

	x=1: HDBT IN x=2: HDMI IN			
get rx input	Get RX input source	get rx input	HDBT in	
get rx hdmi5v	Get RX HDMI input power 5V	get rx hdmi5v	On	
get rx host5v	Get RX USB host power 5V	get rx host5v	On	
set rx auto switch mode x	Set RX Auto Switch detection mode (x=1~2) x=1: Signal x=2: Source 5V	set rx auto switch mode 1	Set RX auto switch mode signal	1
get rx auto switch mode	Get RX Auto Switch detection mode	get rx auto switch mode	Signal	
set rx auto switch x	Set RX Auto Switch on/off (x=0~1) x=0: Off x=1: On	set rx auto switch 1	Set RX auto switch on	1
get rx auto switch	Get RX Auto Switch on/off	get rx auto switch	On	
set rx usb power x	Set RX 2 USB device ports 5V power mode (x=0~2) x=0: Force off x=1: Force on x=2: Follow host	set rx usb power 1	Set RX USB power force on	2
get rx usb power	Get RX 2 USB device ports 5V power mode	get rx usb power	Force on	
CEC Setting				
set cec power on	Set CEC power on command	set cec power on	CEC power on	
set cec power off	Set CEC power off command	set cec power off	CEC power off	
set auto power feature x	Set display auto power feature on/off (x=0~1) x=0: Off x=1: On	set auto power feature 1	Set auto power feature on	1
get auto power feature	Get display auto power feature on/off status	get auto power feature	On	

Command Code	Function Description	Example	Feedback	Default Setting
set 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	set auto power off timer 4	Set auto power off timer 1 min	4
get auto power off timer	Get auto power off timer	get auto power off timer	1 min	
set 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	set auto power control 1	Set auto power control CEC	1
get auto power control	Get auto power feature control type	get auto power control	CEC	
USB Setting				
set usb switch mode x	Set USB switch mode (x=1~3) x=1: Follow video x=2: Manual switch x=3: Auto switch (detect USB 5V then switch)	set usb switch mode 1	Set USB switch mode follow video	1
get usb switch mode	Get USB switch mode	get usb switch mode	Follow video	
set usb manual x	Set USB manual switch (x=1~4) x=1: USB-C 1 x=2: USB-C 2 x=3: USB host 3 x=4: USB host 4	set usb manual 3	Set USB host 3	1
get usb switch	Get USB switch status	get usb switch	USB host 3	
get host5v x	Get USB host (x=0~4) power 5V x=0: All USB hosts x=1: USB-C 1 x=2: USB-C 2 x=3: USB host 3 x=4: USB host 4	get host5v 0	USB-C 1 on USB-C 2 on USB host 3 on USB host 4 on	
set usb power x	Set TX USB device ports 5V power mode (x=0~2) x=0: Force off x=1: Force on x=2: Follow host	set usb power 1	Set USB power force on	2

get usb power	Get TX USB device ports 5V power mode	get usb power	Force on	
RS-232 Setting				
set serial x setting y	Set serial port (x=0~2) setting to y x=0: All RS-232(Local and Remote) x=1: Local RS-232 x=2: Remote 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	set serial 0 setting 115200-8n1	Set local RS-232 115200-8n1 Set remote RS-232 115200-8n1	115200-8n1
get serial x setting	Get serial port (x=0~2) setting x=0: All RS-232(Local and Remote) x=1: Local RS-232 x=2: Remote RS-232	get serial 0 setting	Local RS-232 115200-8n1 Remote RS-232 115200-8n1	

Command Code	Function Description	Example	Feedback	Default Setting
Preset Setting				
set preset save x	Save the current unit's settings to the specified preset (x=1~8) All settings except network setting. x=1~8: Preset 1 ~ Preset 8	set preset save 1	Set preset 1 save	
set preset recall x	Recall a specified preset into unit (x=1~8) All settings except network setting. x=1~8: Preset 1 ~ Preset 8	set preset recall 1	Set preset 1 recall	
set preset clear x	Clear a specified preset into unit (x=1~8) All settings except network setting.	set preset clear 1	Set preset 1 clear	

	x=1~8: Preset 1 ~ Preset 8			
set preset x name y	Set preset (x=1~8) name to y (16 characters max) x=1~8: Preset 1 ~ Preset 8	set preset 1 name MeetingRoom 1	Set preset 1 name MeetingRoom 1	
get preset x name	Get preset (x=1~8) name x=1~8: Preset 1 ~ Preset 8	get preset 1 name	MeetingRoom 1	
Network Setting				
get ipconfig	Get the Current IP Configuration	get 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
get mac addr	Get network MAC address	get mac addr	MAC: 6C:DF:FB:0C:B3:8E	
set ip mode x	Set network IP mode to static IP or DHCP (x=0~1) x=0: Static x=1: DHCP	set ip mode 0	IP mode: Static (Please use "set net reboot!" command or repower device to apply new config!)	1
get ip mode	Get network IP mode	get ip mode	DHCP	
set ip addr xxx.xxx. xxx.xxx	Set network IP address	set ip addr 192.168.1.100	IP address: 192.168.1.100 (Please use "set net reboot!" command or repower	

			device to apply new config!) DHCP on, Device can't config static address, set DHCP off first.	
get ip addr	Get network IP address	get ip addr	192.168.62.106	

Command Code	Function Description	Example	Feedback	Default Setting
set subnet xxx.xxx.xxx.xxx	Set network subnet mask	set subnet 255.255.255.0	Subnet Mask: 255.255.255.0 (Please use "set net reboot!" command or repower device to apply new config!) DHCP on, Device can't config subnet mask, set DHCP off first.	
get subnet	Get network subnet mask	get subnet	255.255.255.0	
set gateway xxx.xxx.xxx.xxx	Set network gateway	set gateway 192.168.1.1	Gateway: 192.168.1.1 (Please use "set net reboot!" command or repower device to apply new config!) DHCP on, Device can't config gateway, set DHCP off first.	
get gateway	Get network gateway	get gateway	192.168.1.1	
set tcp/ip port x	Set network TCP/IP port (x=1~65535)	set tcp/ip port 8000	Set TCP/IP port 8000	8000
get tcp/ip port	Get network TCP/IP port	get tcp/ip port	8000	

set telnet port x	Set network telnet port (x=1~65535)	set telnet port 23	Set telnet port 23	23
get telnet port	Get network telnet port	get telnet port	23	
set net reboot	Reboot network modules	set 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				
set admin password x	Set admin login password (x=[16 characters max])	set admin password 1234	Set admin password 1234	1234
get admin password	Get admin login password	get admin password	1234	
set user password x	Set user login password (x=[16 characters max])	set user password 1234	Set user password 1234	1234
get user password	Get user login password	get user password	1234	

Note: The feedback of the command of "status" is as following.

```
=====
Status Info
MCU 1.1.0 Web 1.1.0 FPGA 1.1.0 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

Output      Cable      Resolution      ColorSpace      ColorDepth      HDCP      Freeze
AVMute Turn_on/off Source
HDMI OUT 1 Connected  3840x2160p60Hz RGB             8bit            2.2       Off       Off
On          1/2/3/4
HDMI OUT 2 Connected  3840x2160p60Hz RGB             8bit            2.2       Off       Off
On          1/2/3/4
HDBT OUT 2 Connected  3840x2160p60Hz RGB             8bit            2.2       Off       Off
On          1/2/3/4

Power  Key  Beep  IR  UsbcAccessNetwork  Baud  FanSpeed  Temp(C)
Uptime(Day:Hour:Min:Sec)
On      On  Off   On  All USB-C Inputs   115200  Auto      46
000:00:13:04

TCP/IP  Telnet  MAC
8000    0023    6C:DF:FB:0C:B3:8E

DHCP    IP          Gateway      SubnetMask
On      192.168.062.111  192.168.062.001  255.255.000.000
(Static: 192.168.000.100  192.168.000.001  255.255.000.000)
=====
```

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