



ReThink

There's a better way.

RAV-SW-2x1HU

RS-232 Control Commands

RAV-SW-2x1HU

2x1 HDMI and USB-C Input Switcher

Kratos family of switchers



RS-232 Connection

Baud rate: 115,200

Data bits: 8

Stop bits: 1

Parity: None

Flow control: None

Pinout

RX connect to controller TX pin.

TX connect to controller RX pin.

GND connect to controller GND pin.

TCP/IP Connection

TCP/IP Port: 8000

Telnet Port: 23

ASCII Commands

ASCII Command				
RS-232 Baud rate: 115200, Data bit: 8, Stop bit: 1, Parity bit: none, TCP/IP Port: 8000 The end mark of command is "<CR><LF>".				
x - Parameter 1, y - Parameter 2				
Command	Function Description	Example	Feedback	Default
System Setting				
?	Get the list of all commands	?		List all API commands
help	Get the list of all commands	help		List all API commands
get model	Get device model	get model	HU21	
status	Get device current status	status	Please refer to the note at the end of the list.	
get version	Get firmware version	get version	BOOT: V1.00.01 MCU: V1.00.01 WEB: V1.00.01	
power on	Power on the device	power on	Power: on System initializing... Initialization finished! BOOT: V1.00.01 MCU: V1.00.01 WEB: V1.00.01	
power off	Power off the device	power off	Power: off	
get power	Get current power state	get power	Power: off	
Command	Function Description	Example	Feedback	Default
System Setting				
reboot	Reboot the device	reboot	Reboot... System initializing... Initialization finished!	

			BOOT: V1.00.01 MCU: V1.00.01 WEB: V1.00.01	
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...	
set front button x	Set front button locked on/off x=0: Unlocked x=1: Locked	set front button 0	Button: unlocked	0
get front button	Get front button locked on/off status	get front button	Button: unlocked	
set auto standby time x	Set auto standby time (x=0~5) when input signal is off x=0: Never x=1: 5 min x=2: 10 min x=3: 15 min x=4: 30 min x=5: 60 min	set auto standby time 3	Auto standby time: 15 min	15 min
get auto standby time	Get auto standby time	get auto standby time	Auto standby time: 15 min	
set usbc x access network y	Set USB-C (x=0~1) access network on/off x=0: All USB-C inputs x=1: USB-C input 1 y=0: Off y=1: On	set usbc 0 access network 1 set usbc 1 access network 1	USB-C input 1 access network: on	1

Command	Function Description	Example	Feedback	Default
System Setting				
get usbc x access network	Get USB-C (x=0~1) access network on/off status x=0: All USB-C inputs x=1: USB-C input 1	set gpio 1 value 1 set gpio 2 value 4	GPIO 1: input (default high level 5v) GPIO 2: output low level (0v)	1

set gpio x value y	Set GPIO (x=0~4) value (y=1~4) x=0: All GPIOs x=1: GPIO 1 x=2: GPIO 2 x=3: GPIO 3 x=4: GPIO 4 y=1: Input (default High Level 5V) y=2: Input (default Low Level 0V) y=3: Output High Level (5V) y=4: Output Low Level (0V)	set gpio 1 value 1 set gpio 2 value 4	GPIO 1: input (default high level 5v) GPIO 2: output low level (0v)	1
get gpio x	Get GPIO (x=0~4) status x=0: All GPIOs x=1: GPIO 1 x=2: GPIO 2 x=3: GPIO 3 x=4: GPIO 4	get gpio 0	GPIO 1: low GPIO 2: high GPIO 3: low GPIO 3: high	Yes
set baud x	Set RS-232 baud rate to (x=1~6) bps x=1: 4800 x=2: 9600 x=3: 19200 x=4: 38400 x=5: 57600 x=6: 115200	set baud 6	Baudrate: 115200	115200
get baud	Get RS-232 baud rate	get baud	Baudrate: 115200	
get temp	Get device internal temperature	get temp	65C	
get uptime	Get device running time (Day:Hour:Min:Sec)	get uptime	0000:00:13:04	

Command	Function Description	Example	Feedback	Default
System Setting				
set auto event report x	Set auto event report on/off x=0: Off x=1: On	set auto event report 1	Auto event report: on	1
get auto event report	Get auto event report on/off status	get auto event report	Auto event report: on	
Input Setting				
set input x name y	Set input (x=1~2) name to y	set input 1 name MacBook	USB-C input 1 name: MacBook HDMI input 2	USB-C In 1 HDMI In 2

	(16 characters max) x=1: USB-C input 1 x=2: HDMI input 2	set input 2 name Dell Laptop	name: Dell Laptop	
get input x name	Get input (x=0~2) name x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2	get input 0 name	USB-C input 1 name: MacBook HDMI input 2 name: Dell Laptop	
get input x connected	Get input (x=0~2) cable connected status x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2	get input 0 connected	USB-C input 1: connected HDMI input 2: connected	
set input x edid y	Set input (x=0~2) EDID (y=1~20) x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2 y=1: Auto (Copy HDMI Out 1) y=2: 4K2K60_444, Audio 2CH PCM y=3: 4K2K60_444, Audio 5.1CH DTS/DOLBY y=4: 4K2K60_444, Audio 7.1CH DTS/DOLBY/HD y=5: 4K2K30_444, Audio 2CH PCM y=6: 4K2K30_444, Audio 5.1CH DTS/DOLBY	set input 0 edid 1	USB-C input 1 EDID: auto (copy HDMI out 1) HDMI input 2 EDID: auto (copy HDMI out 1)	1

Command	Function Description	Example	Feedback	Default
Input Setting				
set input x edid y	(Continued) y=8: 1080P60_444, Audio 2CH PCM y=9: 1080P60_444, Audio 5.1CH DTS/DOLBY y=10: 1080P60_444, Audio 7.1CH DTS/DOLBY/HD y=11: 720P60_444, Audio 2CH PCM y=12: 1920x1200, Audio 2CH PCM y=13: 1680x1050, Audio 2CH PCM y=14: 1600x1200, Audio 2CH PCM y=15: 1440x900, Audio 2CH PCM y=16: 1360x768, Audio 2CH PCM y=17: 1280x1024, Audio 2CH PCM y=18: 1024x768, Audio 2CH PCM y=19: User Defined 1 y=20: User Defined 2	set input 0 edid 1	USB-C input 1 EDID: auto (copy HDMI out 1) HDMI input 2 EDID: auto (copy HDMI out 1)	1
get input x edid	Get input (x=0~2) EDID mode x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2	get input 0 edid	USB-C input 1 EDID: auto (copy HDMI out 1) HDMI input 2 EDID: auto (copy HDMI out 1)	

set user edid x <y>	Set user defined EDID (x=1~2) x=1: User defined 1 x=2: User defined 2 y = 00 FF FF FF(y is 256 bytes EDID data)	set user edid 1 <00 FF FF FF....>	User defined 1 EDID is loaded successfully	
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Command	Function Description	Example	Feedback	Default
Input Setting				
get edid data x	Get EDID data (x=1~5) x=1: USB-C input 1 x=2: HDMI input 2 x=3: HDMI output 1 x=4: User defined 1 x=5: User defined 2	get edid data 1	USB-C input 1 EDID data <00 FF FF FF....>	
set input x hdcp y	Set input (x=0~2) HDCP on/off x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2 y=0: Off y=1: On	set input 0 hdcp 1	USB-C input 1 HDCP: on HDMI input 2 HDCP: on	1
get input x hdcp	Get input (x=0~2) HDCP on/off status x=0: All inputs x=1: USB-C input 1 x=2: HDMI input 2	get input 0 hdcp	USB-C input 1 HDCP: on HDMI input 2 HDCP: on	
Output Setting				
set output x name y	Set output (x=1) name to y (16 characters max) x=1: HDMI output 1	set output 1 name Sony TV	HDMI output 1 name: Sony TV	HDMI Out 1
get output x name	Get input (x=0~1) name x=0: All outputs x=1: HDMI output 1	get output 0 name get output 1 name	HDMI output 1 name: Sony TV	
get output x connected	Get output (x=0~1) cable connected status x=0: All	get output 0 connected get	HDMI output 1: connected	

	outputs x=1: HDMI output 1	output 1 connected		
set output x hdcp y	Set output (x=0~1) hdcp mode (y=1~4) x=0: All outputs x=1: HDMI output 1 y=1: Auto (follow sink) y=2: Force HDCP 1.4 y=3: Force HDCP 2.2 y=4: Signal management	set output 0 hdcp 1 set output 1 hdcp 1	HDMI output 1 HDCP: auto	1

Command	Function Description	Example	Feedback	Default
Output Setting				
get output x hdcp	Get output (x=0~1) hdcp mode x=0: All outputs x=1: HDMI output 1	get output 0 hdcp get output 1 hdcp	HDMI output 1 HDCP: auto	
set output x video y	Set output (x=0~1) video mode (y=1~4) x=0: All outputs x=1: HDMI output 1 y=1: Auto (auto downscale according to display's capability) y=2: Bypass y=3: Force 1080P y=4: Internal pattern	set output 0 video 1 set output 1 video 1	HDMI output 1 video: auto	1
get output x video	Get output (x=0~1) video mode x=0: All outputs x=1: HDMI output 1	get output 0 video get output 1 video	HDMI output 1 video: auto	

set output x signal y	Set output (x=0~1) signal on/ off/avmute x=0: All outputs x=1: HDMI output 1 y=1: On y=2: Off y=3: AVMute	set output 0 signal 1 set output 1 signal 1	HDMI output 1 signal: on	1
get output x signal	Get output (x=0~1) signal status x=0: All outputs x=1: HDMI output 1	get output 0 signal get output 1 signal	HDMI output 1 signal: on	
get pattern	Get internal pattern generator resolution and pattern	get pattern	Pattern: 4K60Hz checkboard	
set welcome screen x	Set welcome screen function on/off x=0: Off x=1: On	set welcome screen 1	Welcome screen: on	1

Command	Function Description	Example	Feedback	Default
Output Setting				
set pattern x y	Set internal pattern generator resolution (x=1~7) pattern (y=1~12) x=1: 4K60Hz x=2: 4K50Hz x=3: 4K25Hz x=4: 4K24Hz x=5: 1080P60Hz x=6: 480P60Hz x=7: 576P50Hz y=1: Black y=2: Checkboard y=3: Strip y=4: Red y=5: Green y=6: Blue y=7: White y=8: Ramp y=9: Red ramp y=10: Green ramp y=11: Blue ramp y=12: PRBS	set pattern 1 2	Pattern: 4K60Hz checkboard	
get welcome screen	Get welcome screen function on/off status	get welcome screen	Welcome screen: on	

set no signal screen x	Set no signal after 60s display welcome screen function on/off x=0: Off x=1: On	set no signal screen 1	No signal screen: on	1
get no signal screen	Get no signal display welcome screen function on/off status	get no signal screen	No signal screen: on	
set image display	Set welcome screen image display	set image display	Welcome image display	
set image clear	Clear welcome screen image	set image clear	Welcome image clear	

Command	Function Description	Example	Feedback	Default
Video Setting				
set output x from y	Set output (x=0~1) from input (y=1~2) x=0: All outputs x=1: HDMI output 1 y=1: USB-C input 1 y=2: HDMI input 2	set output 0 from 1 set output 1 from 1	HDMI output 1: USB-C input 1	1
get output x from	Get output (x=0~1) from which input x=0: All outputs x=1: HDMI output 1	get output 0 from get output 1 from	HDMI output 1: USB-C input 1	
set output x auto switch y	Set output (x=0~1) auto switch on/off x=0: All outputs x=1: HDMI output 1 y=0: Off y=1: On	set output 0 auto switch 1 set output 1 auto switch 1	HDMI output 1 auto switch: on	on
get output x auto switch	Get output (x=0~1) auto switch on/off status x=0: All outputs x=1: HDMI output 1	get output 0 auto switch get output 1 auto switch	HDMI output 1 auto switch: on	
set output auto switch mode x	Set output auto switch detection mode (x=1~2) x=1:	set output auto switch mode 1	Auto switch mode: input signal	1

	Input signal x=2: Source 5V			
get output auto switch mode	Get output auto switch detection mode	get output auto switch mode	Auto switch mode: input signal	
set output x fallback input y	Set output (x=0~1) fallback input source (y=1~4) when active signal is removed in single source auto switching mode x=0: All outputs x=1: HDMI output 1 y=1: Next input y=2: Previous input y=3: USB-C input 1 y=4: HDMI input 2	set output 0 fallback input 1 set output 1 fallback input 1	HDMI output 1 fallback: next input	1

Command	Function Description	Example	Feedback	Default
Video Setting				
get output x fallback input	Get output (x=0~1) fallback input source x=0: All outputs x=1: HDMI output 1	get output 0 fallback input get output 1 fallback input	HDMI output 1 fallback: next input	
Audio Setting				
set analog audio input x	Set analog audio input embedded to (x=0~2) x=0: Off x=1: USB-C input 1 x=2: HDMI input 2	set analog audio input 0	Analog audio input: off	0
get analog audio input	Get analog audio input embedded to	get analog audio input	Analog audio input: off	
set analog audio input to usb x	Set analog audio input embedded to USB audio on/off x=0: Off x=1: On	set analog audio input to usb 0	Analog audio input to USB: off	1

get analog audio input to usb	Get analog audio input embedded to USB audio on/off status	get analog audio input to usb	Analog audio input to USB: off	
set analog audio output x	Set analog audio deembedded from (x=1~2) x=1: HDMI output 1 x=2: USB audio	set analog audio output 1	Analog audio output: HDMI output 1	1
get analog audio output	Get analog audio deembedded from	get analog audio output	Analog audio output: HDMI output 1	
set analog audio gain x	Set analog audio gain (x=0dB ~ -50dB)	set analog audio gain -5	Analog audio gain: -5dB	0dB
get analog audio gain	Get analog audio gain value	get analog audio gain	Analog audio gain: -5dB	
set analog audio gain+ set analog audio gain+x	Increase analog audio gain +1dB Increase analog audio gain +xdB	set analog audio gain+ set analog audio gain+5	Analog audio gain: -4dB Analog audio gain: 0dB	

Command	Function Description	Example	Feedback	Default
Audio Setting				
set analog audio gain set analog audio gain-x	Increase analog audio gain -1dB Increase analog audio gain -xdB	set analog audio gain set analog audio gain-5	Analog audio gain: -6dB Analog audio gain: -10dB	
set analog audio mute x	Set analog audio mute on/off x=0: Off x=1: On	set analog audio mute 1	Analog audio mute: on	Off
get analog audio mute	Get analog audio mute status	get analog audio mute	Analog audio mute: off	
USB Setting				

get usb host x power	Get USB host (x=0~2) power x=0: All hosts x=1: USB-C input 1 x=2: USB host 2	get usb host power 0	USB-C input 1 power: on USB Host 2 power: off	
set usb switch mode x	Set USB switch mode (x=1~3) x=1: Follow video x=2: Manual switch x=3: Auto switch	set usb switch mode 1	USB switch mode: follow video	1
get usb switch mode	Get USB switch mode	get usb switch mode	USB switch mode: follow video	
set usb manual switch x	Set USB manual switch (x=1~2) x=1: USB-C input 1 x=2: USB host 2	set usb manual switch 1	USB manual switch: USB-C input 1	
get usb switch status	Get USB switch status	get usb switch status	USB switch status: USB-C input 1	
get usb device x power	Get USB device (x=0~2) power mode x=0: All USB device ports x=1: USB device 1 x=2: USB device 2	get usb device 0 power	USB device 1 power: follow host USB device 2 power: follow host	

Command	Function Description	Example	Feedback	Default
Display Control				
set display x power y	Set display (x=0~1) power on/off x=0: All outputs x=1: HDMI output 1 y=0: Off y=1: On	set display 0 power 1 set display 1 power 1	Display 1 power: on	

set display x auto power feature y	Set display (x=0~1) auto power feature on/off when system power on/ off x=0: All outputs x=1: HDMI output 1 y=0: Off y=1: On	set display 0 auto power feature 1 set display 1 auto power feature 1	Display 1 auto power feature: on	on
get display x auto power feature	Get display (x=0~1) auto power feature on/off status x=0: All outputs x=1: HDMI output 1	get display 0 auto power feature get display 1 auto power feature	Display 1 auto power feature: on	
set display x auto power on timer y	Set display (x=0~1) auto power on after period time (y=0~1200) when system power on x=0: All outputs x=1: HDMI output 1 y=0~1200sec	set display 0 auto power on timer 5 set display 1 auto power on timer 5	Display 1 auto power on timer: 5 sec	5 sec
get display x auto power on timer	Get display (x=0~1) auto power on timer x=0: All outputs x=1: HDMI output 1	get display 0 auto power on timer get display 1 auto power on timer	Display 1 auto power on timer: 5 sec	
set display x auto power off timer y	Set display (x=0~1) auto power off after period time (y=0~1200) when system power off x=0: All outputs x=1: HDMI output 1 y=0~1200sec	set display 0 auto power off timer 5 set display 1 auto power off timer 5	Display 1 auto power off timer: 5 sec	5 sec

Command	Function Description	Example	Feedback	Default
Display Control				
get display x auto power off timer	Get display (x=0~1) auto power off timer x=0: All outputs x=1: HDMI output 1	get display 0 auto power off timer get display 1 auto power off timer	Display 1 auto power off timer: 5 sec	
set display x control type y	Set display (x=1) power on/off control type (y[2:0]) x=1: HDMI output 1 y[0]: CEC y[1]: IR y[2]: RS-232	set display 1 control type 111	Display 1 control type: 111	100
get display x control type	Get display (x=0~1) power on/off control type x=0: All outputs x=1: HDMI output 1	get display 0 control type get display 1 control type	Display 1 control type: 111	
RS-232 Setting				
set serial setting y	Set serial setting to 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 setting 115200-8n1	Serial setting: 115200-8n1	115200-8n1
get serial setting	Get serial setting	get serial setting	Serial setting: 115200-8n1	
set serial HEX/ASCII <end> <command>	Set serial general command, command format is HEX or ASCII <end>= command end flag, can be null/CR/LF/CR+LF <command>= RS-232 command	set serial ASCII <CR+LF> <VOL+>	Serial: ASCII <CR+LF> <VOL+>	

Command	Function Description	Example	Feedback	Default
RS-232 Setting				
set serial power on/ off HEX/ ASCII <end> <command1> <delay> <command2>	Set serial power on/off commands, command format is HEX or ASCII <end>= command end flag, can be null/CR/LF/CR+LF <command1>= RS-232 power on/off command 1 <delay>= 0~1200sec <command2>= RS-232 power on/off command 2 NOTE: <delay> and <command2> can be NULL	set serial power on ASCII <CR+LF> <PWRON> <10> <INPUT1> set serial power off ASCII <CR+LF> <PWROFF> <10> <LAMPOFF> set serial power on ASCII <CR+LF> <PWRON> set serial power off ASCII <CR+LF> <PWROFF> set serial power on HEX <null> <11 22> set serial power off HEX <null> <33 44>	Serial power on: ASCII <CR+LF> <PWRON> <10> <INPUT1> Serial power off: ASCII <CR+LF> <PWROFF> <10> <LAMPOFF> Serial power on: ASCII <CR+LF> <PWRON> Serial power off: ASCII <CR+LF> <PWROFF> Serial power on: HEX <null> <11 22> Serial power off: HEX <null> <33 44>	
get serial power on/off command	Get serial power on/off commands	get serial power on command get serial power off command	Serial power on: ASCII <CR+LF> <PWRON> <10> <INPUT1> Serial power off: ASCII <CR+LF> <PWROFF> <10> <LAMPOFF> Serial power on: ASCII	

			<CR+LF> <PWRON> Serial power off: ASCII <CR+LF> <PWROFF> Serial power on: HEX <null> <11 22> Serial power off: HEX <null> <33 44>	
IR Setting				
set ir power on/off	Set IR power on/off	set ir power on set ir power off	IR power: on IR power: off	

Command	Function Description	Example	Feedback	Default
CEC Setting				
set input x cec <y>	Set input (x=0, x=2) CEC command <y> x=0: All inputs x=2: HDMI input 2 y=power on/power off y=menu/select/up/down/ left/right/exit y=play/stop/pause/ rewind/fast forward/ previous/next y=volume up/volume down/mute	set input 0 cec <power on> set input 2 cec <power on>	HDMI input 2 CEC: power on	
set input x custom cec <y>	Set input (x=0, x=2) custom CEC command <y> x=0: All inputs x=2: HDMI input 2 y=custom CEC command (hex format)	set input 0 custom cec <87 01> set input 1 custom cec <87 01>	HDMI input 2 CEC: <87 01>	
set output x cec <y>	Set output (x=0~1) CEC command <y> x=0: All outputs x=1: HDMI output 1 y=power on/power off	set output 0 cec <power off> set	HDMI output 1 CEC: power off	

	y=active source/image view on/text view on y=volume up/volume down/mute	output 1 cec <power off>		
set output x custom cec <y>	Set output (x=0~1) custom CEC command <y> x=0: All outputs x=1: HDMI output 1 y=custom CEC command (hex format)	set output 0 custom cec <87 01> set output 1 custom cec <87 01>	HDMI output 1 CEC: <87 01>	

Command	Function Description	Example	Feedback	Default
Preset Setting				
set preset save x	Save the current unit's settings to the specified preset (x=1~5) All settings except network setting. x=1~5: Preset 1 ~ Preset 5	set preset save 1	Preset 1: save	
set preset recall x	Recall a specified preset into unit (x=1~5) All settings except network setting. x=1~5: Preset 1 ~ Preset 5	set preset recall 1	Preset 1: recall	
set preset clear x	Clear a specified preset into unit	set preset clear 1	Preset 1: clear	

	(x=1~5) All settings except network setting. x=1~5: Preset 1 ~ Preset 5			
set preset x name y	Set preset (x=1~5) name to y (16 characters max) x=1~5: Preset 1 ~ Preset 5	set preset 1 name MeetingRoom 1	Preset 1 name: MeetingRoom 1	
get preset x name	Get preset (x=1~5) name x=1~5: Preset 1 ~ Preset 5	get preset 1 name	Preset 1 name: MeetingRoom 1	
Network Setting				
get mac addr	Get network MAC address	get mac addr	MAC address: 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 to apply new config!)	1

Command	Function Description	Example	Feedback	Default
Network Setting				
get ipconfig	Get the Current IP Configuration	get ipconfig	IP mode: DHCP IP address: 192.168.62.106 Subnet mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC address: 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 ip mode	Get network IP mode	get ip mode	IP mode: static	
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 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	IP address: 192.168.1.100	
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 to apply new config!) DHCP on, device can't config subnet mask, set DHCP off first.	

Command	Function Description	Example	Feedback	Default
Network Setting				
get subnet	Get network subnet mask	get subnet	Subnet mask: 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 to apply new config!) DHCP on, device can't config gateway, set DHCP off first.	
get gateway	Get network gateway	get gateway	Gateway: 192.168.1.1	
set tcp/ip port x	Set network TCP/IP port (x=1~65535)	set tcp/ip port 8000	TCP/IP port: 8000	8000
get tcp/ip port	Get network TCP/IP port	get tcp/ip port	TCP/IP port: 8000	
set telnet port x	Set network telnet port(x=1~65535)	set telnet port 23	Telnet port: 23	23
get telnet port	Get network telnet port	get telnet port	Telnet port: 23	
set net reboot	Reboot network modules	set net reboot	Network reboot... Search for IP, Please wait ...! IP mode: DHCP IP address: 192.168.62.106 Subnet mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 Telnet port: 23 MAC address: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)	

Command	Function Description	Example	Feedback	Default
Network Setting				
set net hostname xxxx	Set network hostname to xxxx (x=[32 characters max])	set net hostname xxxx	Hostname: 1234	HU21+ (Mac[3]%16, Mac[4], Mac[5])
get net hostname	Get network hostname	get net hostname	Hostname: 1234	
set net mode x	Set network working mode (x=1~2) x=1: Mode 1 (separated mode), LAN 1 is for TCP/ IP and Web GUI access, LAN 2 is for 1G ethernet. x=2: Mode 2 (switch mode), LAN 1 and LAN 2 both can access TCP/ IP and Web GUI and 1G ethernet.	set net mode 1	Network mode: 1	1
get net mode	Get network working mode	get net mode	Network mode: 1	
Password Setting				
set admin password x	Set admin login password (x=[16 characters max])	set admin password 1234	Admin password: 1234	1234
get admin password	Get admin login password	get admin password	Admin password: 1234	
set user password x	Set user login password (x=[16 characters max])	set user password 1234	User password: 1234	1234
get user password	Get user login password	get user password	User password: 1234	

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

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Status Info RAV-SW-2x1HU

MCU: V1.00.01 WEB: V2.00.05

Power Key Baud WelcomeScreen NoSignalScreen AutoSwitch_Mode

On On 15200 On On Input_Signal

AutoStandbyTime UsbcAccessNetwork Temp(C) Uptime(Day:Hour:Min:Sec)

15 min USB-C 1 39 0000:00:04:34

Input Name Cable Resolution ColorSpace ColorDepth HDCP

USB-C_In1 USB-C In 1 Disconnected None None None Off

HDMI_In2 HDMI In 2 Disconnected None None None Off

EDID

Auto (Copy HDMI Out 1)

Auto (Copy HDMI Out 1)

Output Name Cable Resolution ColorSpace ColorDepth HDCP

HDMI_Out1 HDMI Out 1 Connected 1280x720p60 YUV 4:2:2 8 Off

VideoMode OutputSignal AutoSwitch From

Auto On On USB-C_In1

Analog_Audio_In Analog_Audio_In_To_USB Analog_Audio_Out_From

Off On HDMI_Out1

Analog_Audio_Out_Mute Analog_Audio_Out_Gain

Off 0dB

USB_Switch USB-C_In1 USB_Host2 USB_Device1 USB_Device2 USB_Device3

Follow Video Power Off Power Off Follow Host Follow Host Force 5V Always Out

Display_AutoPower On/Off Power_On_Time(s) Power_Off_Time(s) Control_Mode

HDMI_Out1 On 5 5 CEC

GPIO1 GPIO2 GPIO3 GPIO4

Input_High Input_High Input_High Input_High

TCP/IP Telnet MAC

8000 0023 9C:69:D3:0E:89:07

DHCP IP Gateway SubnetMask

On 169.254.100.105 255.255.255.000 169.254.100.001

(Static: 192.168.000.100 255.255.000.000 192.168.000.001)

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