



API Command Set_ SCT-SWKVM411-H2U3

HDMI2.0 KVM Switcher

Version: V1.0.0

RS232 Default Setting

Parameters	Value
Baud Rate	115200 bps
Data bits	8 bits
Parity	None
Stop bits	1 bit
Flow control	None

About Telnet Connection

Before the process of sending the telnet command, shall make telnet connection to the corresponding device.

The form of telnet command is as follow:

telnet ip (port)

ip: The unit's IP address.

port: The unit's port number, this is non-required on some Telnet control tools or platforms. If required, port number is 23 by default.

Example: If the unit's IP address is 192.168.11.143,

The telnet command is *telnet 192.168.11.143*

Command

Take Command *SET VIDSW out in<CR><LF>* as an example:

1. *[SET VIDSW]* denotes command key words, case insensitive.
2. *[out in]* denotes parameters, case insensitive; incorrect parameters number will not be recognized.
3. *<CR><LF>* denotes a carriage return or a line feed; all commands must be ended up with a carriage return or a line feed.

NO.	Description	Command	Example
Normal switch case			
1	Switch one input to output	<p>Command: SET VIDSW <i>out</i> <i>in</i><CR><LF></p> <p>Return: VIDSW <i>out in</i><CR><LF></p> <p>Parameter: <i>in</i> = {i00, i01, i02, i03, i04}; <i>out</i> = {o01};</p> <p>Description: SW is short for Switch Switch one input source to output sink. i00 is none input.</p>	<p>Command: SET VIDSW o01 i01<CR><LF></p> <p>Return: VIDSW o01 i01<CR><LF></p> <p>Description: Switch input 2 to hdmi output.</p>
3	Get which input is mapping to the Output	<p>Command: GET VIDSW <i>out</i><CR><LF></p> <p>Return: VIDSW <i>out in</i><CR><LF></p> <p>Parameter: <i>in</i> = {i00, i01, i02, i03, i04}; <i>out</i> = {o01};</p> <p>Description: Get which input is mapping to the Output. i00 is none input.</p>	<p>Command: GET VIDSW o01<CR><LF></p> <p>Return: VIDSW o01 i01<CR><LF></p> <p>Description: Input 1 is switched to the output.</p>

NO.	Description	Command	Example
CEC Control			
1	Set CEC POWER ON/OFF	<p>Command: SET CEC_PWR <i>out prm</i><CR><LF></p> <p>Return: CEC_PWR <i>out prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on, off} <i>out</i> = {o01, o02, all};</p> <p>Description: Set sink power to on or off. <i>out</i>= {o01=hdmiout1, o02=hdbtout1} all = {all}</p>	<p>Command: SET CEC_PWR o01 <i>on</i><CR><LF></p> <p>Return: CEC_PWR o01 <i>on</i><CR><LF></p> <p>Description: Set sink hdmi output 1 power on.</p>
2	Set CEC AUTO POWER ON/OFF	<p>Command: SET AUTOCEC_FN <i>out prm</i><CR><LF></p> <p>Return: AUTOCEC_FN <i>out prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on,off} <i>out</i> = {o01,o02,all};</p> <p>Description: Set sink auto power Function to ON or OFF. <i>out</i>={o01=hdmiout1, o02=hdbtout1} all = {all}</p> <p>Default: on</p>	<p>Command: SET AUTOCEC_FN o01 <i>on</i><CR><LF></p> <p>Return: AUTOCEC_FN o01 <i>on</i><CR><LF></p> <p>Description: Set sink hdmi output 1 auto power to ON.</p>

NO.	Description	Command	Example
3	Get CEC AUTO POWER ON/OFF Status	<p>Command: GET AUTOCEC_FN <i>out</i><CR><LF></p> <p>Return: AUTOCEC_FN <i>out</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on, off} <i>out</i> = {o01, o02, all};</p> <p>Description: Get Sink auto power Function ON or OFF Status. <i>out</i>={o01=hdmio1, o02=hdbto1} <i>all</i> = {all};</p> <p>Default: on</p>	<p>Command: GET AUTOCEC_FN o01<CR><LF></p> <p>Return: AUTOCEC_FN o01 on<CR><LF></p> <p>Description: Get Sink auto power status, and the status is ON.</p>

NO.	Description	Command	Example
4	Set CEC POWER Delay Time	<p>Command: SET AUTOCEC_D <i>out</i> <i>prm</i><CR><LF></p> <p>Return: AUTOCEC_D <i>out</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>out</i> = {o01,o02,all}; <i>prm</i> = {1,2,3...}// according to the actual time counter,1 means 1 minute, 2 means 2 minutes, Default wait time is 2 minutes, Max wait time is 30 minutes.</p> <p>Description: AUTOCEC_D is short for CEC auto Power Delay Timing. <i>out</i>={o01=hdmio1, o02=hdbt1} <i>all</i>={all }</p>	<p>Command: SET AUTOCEC_D o01 2<CR><LF></p> <p>Return: AUTOCEC_D o01 2<CR><LF></p> <p>Description: When no active signal to hdmi output, 2 minutes later, the unit will auto power off.</p>

NO.	Description	Command	Example
5	Get CEC POWER Delay Time Status	<p>Command: GET AUTOCEC_D <i>out</i><CR><LF></p> <p>Return: AUTOCEC_D <i>out</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>out</i> = {o01,o02,all}; <i>prm</i> = {1,2,3...}// according to the actual time counter,1 means 1 minute ,2 means 2 minutes, Default wait time is 2 minutes, Max wait time is 30 minutes.</p> <p>Description: AUTOCEC_D is short for CEC auto Power Delay Timing <i>out</i>={o01=hdmiout1, o02=hdbtout1, } <i>all</i> = {all}; Default: 2</p>	<p>Command: GET AUTOCEC_D o01<CR><LF></p> <p>Return: AUTOCEC_D o01 2<CR><LF></p> <p>Description: Get delay time of hdmi output auto power off, the result is 2 minutes.</p>

NO.	Description	Command	Example
HDCP			
1	Set Input HDCP support to ON/OFF	<p>Command: SET HDCP_S <i>in prm</i><CR><LF></p> <p>Return: HDCP_S <i>in prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on, off} <i>in</i> = {i01, i02, i03, i04};</p> <p>Description: HDCP_S will control source hdcp support on or off.</p> <p>Default: on</p>	<p>Command: SET HDCP_S i01 <i>on</i><CR><LF></p> <p>Return: HDCP_S i01 <i>on</i><CR><LF></p> <p>Description: Set hdmi input 1 hdcp support to on.</p>
2	Get Input HDCP support ON/OFF Status	<p>Command: GET HDCP_S <i>in</i><CR><LF></p> <p>Return: HDCP_S <i>in prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on, off} <i>in</i> = {i01, i02, i03, i04};</p> <p>Description: HDCP_S is short for HDCP support.</p> <p>Default: on</p>	<p>Command: GET HDCP_S i01<CR><LF></p> <p>Return: HDCP_S i01 <i>on</i><CR><LF></p> <p>Description: Get hdmi input 1 hdcp support on or off status, and the result is on.</p>

NO.	Description	Command	Example
EDID			
1	Set Input EDID	<p>Command: SET EDID <i>in</i> <i>prm</i><CR><LF></p> <p>Return: EDID <i>in</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = {01 ~05}</p> <p>01: Copy form HDMI output 02: Copy form HDBT output 03: 4K@60Hz 2.0ch PCM With SDR 04: 4K@30Hz 2.0ch PCM With SDR 05: 1080P@60Hz 2.0ch PCM With SDR ...</p> <p>Description: Set Input EDID. The default EDID is 4K60 444 2.0ch PCM With SDR.</p>	<p>Command: SET EDID i01 05<CR><LF></p> <p>Return: EDID i01 05<CR><LF></p> <p>Description: Set in1 EDID to Fix 1080P@60Hz 2.0ch PCM With SDR</p>

NO.	Description	Command	Example
2	Get All Input EDID status	<p>Command: GET EDID <i>all</i><CR><LF></p> <p>Return: EDID in <i>prm</i><CR> EDID in <i>prm</i><CR> EDID in <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = {01 ~06} 01: Copy form HDMI output 02: Copy form HDBT output 03: 4K@60Hz 2.0ch PCM With SDR 04: 4K@30Hz 2.0ch PCM With SDR 05: 1080P@60Hz 2.0ch PCM With SDR 06: EDID Write</p> <p>Description: Get all input EDID Status.</p> <p>Default: The default EDID is 4K60 444 2.0ch PCM With SDR.</p>	<p>Command: GET EDID <i>all</i> <CR><LF></p> <p>Return: EDID i01 01<CR> EDID i02 02<CR> EDID i03 03<CR><LF></p> <p>Description: Get all input EDID Status.</p>

NO.	Description	Command	Example
3	Get EDID of one input	<p>Command: GET EDID <i>in</i><CR><LF></p> <p>Return: EDID <i>in prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = {01 ~06}</p> <p>01: Copy form HDMI output 02: Copy form HDBT output 03: 4K@60Hz 2.0ch PCM With SDR 04: 4K@30Hz 2.0ch PCM With SDR 05: 1080P@60Hz 2.0ch PCM With SDR 06: EDID Write</p> <p>Description: Get EDID of one input.</p> <p>Default: The default EDID is 4K60 444 2.0ch PCM With SDR.</p>	<p>Command: GET EDID i01<CR><LF></p> <p>Return: EDID i01 05<CR><LF></p> <p>Description: Get EDID of in1, and the status is Fix 1080P@60Hz 2.0ch PCM With SDR.</p>

NO.	Description	Command	Example
5	Write EDID to one Input	<p>Command: SET EDID_W in <i>prm1</i> <i>prm2</i><CR><LF></p> <p>Return: EDID_W in <i>prm1</i> <i>prm3</i><CR><LF></p> <p>Parameter: in = {i01, i02, i03, i04}; <i>prm1</i> = {block0, block1}; <i>prm2</i> = one block of 256 bytes edid ascii data with no spaces (hex data need conversion into ASCII code) <i>prm3</i> = {ok, error}; error: check sum error</p> <p>Description: Write EDID content to one input.</p>	<p>Command: SET EDID_W <i>i01</i> <i>block0</i> XX...XX<CR><LF></p> <p>Return: EDID_W <i>i01</i> <i>block0</i> ok<CR><LF></p> <p>Description: Write EDID content to input1.</p>

NO.	Description	Command	Example
6	Get EDID of Output	<p>Command: GET EDID_R <i>out</i><CR><LF></p> <p>Return: EDID_R <i>out prm1</i> <i>prm2</i><CR><LF></p> <p>Parameter: <i>out</i> = {o01, o02}; <i>prm1</i> = {block0, block1}; <i>prm2</i> = {one block of 256 bytes edid ascii data with no spaces (hex data need conversion into ASCII code), error, unconnect};</p> <p>Description: Read EDID content of output. <i>out</i>= {o01=hdmio1, o02=hdbt1}</p>	<p>Command: GET EDID_R <i>o01</i><CR><LF></p> <p>Return: EDID_R <i>o01 block0</i> <i>XX...XX</i><CR><LF> EDID_R <i>o01 block1</i> <i>XX...XX</i><CR><LF></p> <p>Description: EDID_R <i>o01 block0</i> <i>XX...XX</i><CR><LF> --- Read EDID ok or EDID_R <i>o01</i> <i>error</i><CR><LF> --- Check Sum Error or EDID_R <i>o01</i> <i>unconnect</i><CR><LF> --- Sink unconnect</p>
System Info			
1	Enter Standby mode	<p>Command: Standby<CR><LF></p> <p>Return: Standby!<CR><LF></p> <p>Description: Enter Standby mode.</p>	<p>Command: Standby<CR><LF></p> <p>Return: Standby!<CR><LF></p>
2	Exit standby mode.	<p>Command: Wake<CR><LF></p> <p>Return: Wake!<CR><LF></p>	<p>Command: Wake<CR><LF></p> <p>Return: Wake!<CR><LF></p>

NO.	Description	Command	Example
		Description: Exit Standby mode.	
3	Factory reset	Command: RESET<CR><LF> Return: RESET<CR><LF> Description: Factory reset.	Command: RESET<CR><LF> Return: RESET<CR><LF> Description: Factory reset all board.
4	System reboot	Command: REBOOT<CR><LF> Return: REBOOT<CR><LF> Description: System reboot.	Command: REBOOT<CR><LF> Return: REBOOT<CR><LF> Description: System reboot.
5	Get the API list	Command: help<CR><LF> Return: xxxx Description: Get the API list.	Command: help<CR><LF> Return: xxxx Description: Get the API list.

NO.	Description	Command	Example
6	Set IP Mode	<p>Command: SET IP MODE prm<CR><LF></p> <p>Return: IP MODE prm <CR><LF></p> <p>Parameter: pcm= {static, dhcp}</p> <p>Description: Set IP mode.</p> <p>Default: DHCP</p>	<p>Command: SET IP MODE dhcp<CR><LF></p> <p>Return: IP MODE dhcp <CR><LF></p> <p>Description: Set IP mode to dhcp.</p>
7	Get IP Mode	<p>Command: GET IP MODE<CR><LF></p> <p>Return: IP MODE prm <CR><LF></p> <p>Parameter: pcm= {static,dhcp}</p> <p>Description: Get IP mode.</p> <p>Default: DHCP</p>	<p>Command: GET IP MODE<CR><LF></p> <p>Return: IP MODE dhcp <CR><LF></p> <p>Description: IP mode is dhcp.</p>

NO.	Description	Command	Example
8	SET IP address	<p>Command: SET IPADDR xx.xx.xx.xx xx.xx.xx.xx xx.xx.xx.xx<CR><LF></p> <p>Return: IPADDR IP:xx.xx.xx.xx MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx<CR><LF></p> <p>Description: SET IP address.</p>	<p>Command: SET IPADDR 192.168.1.4 255.255.255.0 192.168.1.1<CR><LF></p> <p>Return: IPADDR IP:192.168.1.4 MASK:255.255.255.0 GATE:192.168.1.1<C R><LF></p> <p>Description: Set IP address is 192.168.1.4, MASK is 255.255.255.0, GATE is 192.168.1.1.</p>
9	GET IP address	<p>Command: GET IPADDR<CR><LF></p> <p>Return: IPADDR IP:xx.xx.xx.xx MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx<CR><LF></p> <p>Description: GET IP address.</p>	<p>Command: GET IPADDR<CR><LF></p> <p>Return: IPADDR IP:192.168.1.4 MASK:255.255.255.0 GATE:192.168.1.1<C R><LF></p> <p>Description: Get IP address is 192.168.1.4, MASK is 255.255.255.0, GATE is 192.168.1.1.</p>

NO.	Description	Command	Example
Update info			
1	Get selected target firmware version	<p>Command: GET VER<CR><LF></p> <p>Return: VER <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {...} // according to actual firmware version</p> <p>Description: Get selected target firmware version.</p>	<p>Command: GET VER<CR><LF></p> <p>Return: VER 1.0, ARM VER 1.0<CR><LF></p> <p>Description: Get all module firmware version.</p>
Preset scene			
1	Save Preset Scene	<p>Command: SAVE PRESET <i>prm</i><CR><LF></p> <p>Return: SAVE PRESET <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {1,2,3} //</p> <p>Description: Save Preset Scene.</p>	<p>Command: SAVE PRESET 1<CR><LF></p> <p>Return: SAVE PRESET 1 <CR><LF></p> <p>Description: Save preset scene.</p>

NO.	Description	Command	Example
2	Restore Preset Scene	<p>Command: RESTORE PRESET <i>prm</i><CR><LF></p> <p>Return: RESTORE PRESET <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {1,2,3}//</p> <p>Description: Restore Preset Scene.</p> <p>Default: mp hdmi in1 out1.</p>	<p>Command: RESTORE PRESET 1<CR><LF></p> <p>Return: RESTORE PRESET 1<CR><LF></p> <p>Description: Restore preset scene.</p>
Audio			
3	Set Audio Output to mute/unmute	<p>Command: SET MUTE <i>aout</i> <i>prm</i><CR><LF></p> <p>Return: MUTE <i>aout</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on,off};//on means mute; off means unmute <i>aout</i> = {ao01};</p> <p>Description: Set Audio Output to mute or unmute.</p>	<p>Command: SET MUTE <i>ao01</i> <i>on</i><CR><LF></p> <p>Return: MUTE <i>ao01</i> <i>on</i><CR><LF></p> <p>Description: Set audio output to mute.</p>

NO.	Description	Command	Example
4	Get Audio Output mute/unmute status	<p>Command: GET MUTE <i>ao01</i><CR><LF></p> <p>Return: MUTE <i>ao01</i> <i>pcm</i><CR><LF></p> <p>Parameter: <i>pcm</i> = {on,off};//on means mute; off means unmute <i>ao01</i> = {ao01};</p> <p>Description: Get Audio Output mute status.</p> <p>Default: off</p>	<p>Command: GET MUTE <i>ao01</i><CR><LF></p> <p>Return: MUTE <i>ao01</i> <i>off</i><CR><LF></p> <p>Description: Get Audio Output mute/unmute status.</p>
Scaler			
1	Set video Output scaler to on/off	<p>Command: SET SCALER out <i>prm</i><CR><LF></p> <p>Return: SCALER out <i>prm</i><CR><LF></p> <p>Parameter: <i>pcm</i> = {on, off};//on means scaler; off means not scaler <i>out</i> = {o01, o02, all};</p> <p>Description: Set 4K-to-1080p simple scaler on each video output to ON or OFF.</p>	<p>Command: SET SCALER o01 <i>on</i><CR><LF></p> <p>Return: SCALER o01 <i>on</i><CR><LF></p> <p>Description: Set hdmiout 1 scaler to on.</p>

NO.	Description	Command	Example
		<pre>out= {o01=hdmiout1, o02=hdbtout1, } all = {all}</pre>	
2	Get video Output scaler status	<p>Command: GET SCALER <i>out</i><CR><LF></p> <p>Return: SCALER <i>out</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {on, off};; //on means mute; off means unmute <i>out</i> = {o01, o02, all };</p> <p>Description: Get video Output scaler status <i>out</i>={o01=hdmiout1, o02=hdbtout1, } all = {all} Default: on</p>	<p>Command: GET SCALER <i>o01</i><CR><LF></p> <p>Return: SCALER <i>o01</i> <i>on</i><CR><LF></p> <p>Description: Get video Output 1 scaler status.</p>

NO.	Description	Command	Example
3	Volume gain increase	<p>Command: SET VOLGAIN_INC <i>aout</i><CR><LF></p> <p>Return: VOLGAIN_INC <i>aout</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i>= {0~100}</p> <p>Description: Increase AUDIO OUT volume by step level.</p> <p>Default: 50</p>	<p>Command: SET VOLGAIN_INC <i>ao01</i><CR><LF></p> <p>Return: VOLGAIN_INC <i>ao01</i> 60<CR><LF></p> <p>Description: After increasing volume, AUDIO OUT volume becomes 60 of 100 in total.</p>
4	Volume gain decrease	<p>Command: SET VOLGAIN_DEC <i>aout</i> <CR><LF></p> <p>Return: VOLGAIN_DEC <i>aout</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i>= {0~100}</p> <p>Description: Decrease AUDIO OUT volume by step level.</p> <p>Default: 50</p>	<p>Command: SET VOLGAIN_DEC <i>ao01</i><CR><LF></p> <p>Return: VOLGAIN_DEC <i>ao01</i> 40<CR><LF></p> <p>Description: After volume decreasing, the AUDIO OUT volume becomes 40.</p>

NO.	Description	Command	Example
5	Set audio output volume gain	<p>Command: SET VOLGAIN_DATA <i>aout prm</i><CR><LF></p> <p>Return: VOLGAIN_DATA <i>aout prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i> = {0~100}</p> <p>Description: VOLGAIN is volgain.</p> <p>Default: 50</p>	<p>Command: SET VOLGAIN_DATA <i>ao01 50</i><CR><LF></p> <p>Return: VOLGAIN_DATA <i>ao01 50</i><CR><LF></p> <p>Description: Set volume gain of audio output to 50.</p>
6	Get current adjustment gain of volume	<p>Command: GET VOLGAIN_DATA <i>aout</i><CR><LF></p> <p>Return: VOLGAIN_DATA <i>aout prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i> = {0~100}</p> <p>Description: VOLGAIN is volgain. {0~100}</p> <p>Default: 50</p>	<p>Command: GET VOLGAIN_DATA <i>ao01</i><CR><LF></p> <p>Return: VOLGAIN_DATA <i>ao01 50</i> <CR><LF></p> <p>Description: Get volume gain, the gain is 50.</p>

NO.	Description	Command	Example
7	Set volume gain adjust step	<p>Command: SET VOLGAIN_STEP <i>aout prm</i><CR><LF></p> <p>Return: VOLGAIN_STEP <i>aout prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i> = {1~10}</p> <p>Default: 5</p>	<p>Command: SET VOLGAIN_STEP <i>oa01 5</i><CR><LF></p> <p>Return: VOLGAIN_STEP <i>oa01 5</i><CR><LF></p> <p>Description: Set volume gain adjust step to 5.</p>
8	Get volume gain adjust step	<p>Command: GET VOLGAIN_STEP <i>aout</i><CR><LF></p> <p>Return: VOLGAIN_STEP <i>aout prm</i><CR><LF></p> <p>Parameter: <i>aout</i> = {ao01}; <i>prm</i> = {1~10}</p> <p>Default: 5</p>	<p>Command: GET VOLGAIN_STEP <i>ao01</i><CR><LF></p> <p>Return: VOLGAIN_STEP <i>ao01 5</i><CR><LF></p> <p>Description: Get volume gain adjust step, the value is 5.</p>
USB Matrix			
1	Set USB Work Model	<p>Command: SET USB_M <i>prm</i><CR><LF></p> <p>Return: USB_M <i>prm</i><CR><LF></p> <p>Parameter: <i>prm</i> = {follow,</p>	<p>Command: SET USB_M <i>follow</i><CR><LF></p> <p>Return: USB_M <i>follow</i><CR><LF></p> <p>Description:</p>

NO.	Description	Command	Example
		independent} Description: Set USB Work Model.	Set usb work mode is follow.
2	Get USB Work Model	Command: GET USB_M<CR><LF> Return: USB_M <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {follow, independent} Description: Get USB Work Model.	Command: GET USB_M<CR><LF> Return: USB_M <i>follow</i> <CR><LF> Description: Get usb work mode, and the work mode is follow.
13	Switch one USB host to output USB devices	Command: SET USBSW <i>out in</i> <CR><LF> Return: USBSW <i>out in</i> <CR><LF> Parameter: <i>in</i> = {i00, i01, i02, i03, i04}; <i>out</i> = {o01}; Description: i00 is blank USBSW is short for usb switch Switch one USB source to output USB devices.	Command: SET USBSW <i>o01 i01</i> <CR><LF> Return: USBSW <i>o01 i01</i> <CR><LF> Description: Switch USB host 1 to output USB devices.

NO.	Description	Command	Example
15	Get which USB host is switched to the output USB devices	<p>Command: GET USBSW <i>out</i><CR><LF></p> <p>Return: USB SW <i>out in</i><CR><LF></p> <p>Parameter: <i>in</i> = {<i>i00, i01, i02, i03, i04</i>}; <i>out</i> = {<i>o01</i>};</p> <p>Description: USB SW is short for usb switch Get which USB host is switched to the output USB devices.</p>	<p>Command: GET USBSW <i>o01</i><CR><LF></p> <p>Return: USB SW <i>o01 i02</i><CR><LF></p> <p>Description: USB Host 2 is switched to output USB devices.</p>
4	Get USB Host Connect status	<p>Command: GET USB_HOST_C <i>in</i><CR><LF></p> <p>Return: USB_HOST_C <i>in prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {<i>i01, i02, i03, i04</i>} <i>prm</i> = {connect, unconnect}</p> <p>Description: Get USB Host Connect status.</p>	<p>Command: GET USB_HOST_C <i>i01</i><CR><LF></p> <p>Return: USB_HOST_C <i>i01 connect</i><CR><LF></p> <p>Description: Get USB Host Connect status.</p>

NO.	Description	Command	Example
Video information			
1	Get input video cable connection status	<p>Command: GET VIDIN_CONNECT in<CR><LF></p> <p>Return: VIDIN_CONNECT in <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i>= {i01, i02, i03, i04}; <i>prm</i> = {connect, unconnect}</p> <p>Description: Get input cable connection status.</p>	<p>Command: GET VIDIN_CONNECT i01<CR><LF></p> <p>Return: VIDIN_CONNECT i01 connect<CR><LF></p> <p>Description: Get i01 cable connection status.</p>
2	Get output cable connection status	<p>Command: GET VIDOUT_CONNECT OUT<CR><LF></p> <p>Return: VIDOUT_CONNECT out <i>prm</i><CR><LF></p> <p>Parameter: <i>out</i>= {o01, o02}; <i>prm</i> = {connect, unconnect}</p> <p>Description: Get output cable connection status. <i>out</i>= {o01=hdmio1, o02=hdbto1, }</p>	<p>Command: GET VIDOUT_CONNECT o01<CR><LF></p> <p>Return: VIDOUT_CONNECT o01 connect<CR><LF></p> <p>Description: Get o01 output connection status.</p>

NO.	Description	Command	Example
3	Get the status of the video input	<p>Command: GET VIDIN_SIG <i>in</i><CR><LF></p> <p>Return: VIDIN_SIG <i>in</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = {no, valid}</p> <p>Description: Get the status of the video input.</p>	<p>Command: GET VIDIN_SIG i01<CR><LF></p> <p>Return: VIDIN_SIG i01 valid<CR><LF></p> <p>Description: Get the status of the video input1.</p>

NO.	Description	Command	Example
4	Get input video format information	<p>Command: GET VIDIN_FORMAT <i>in</i><CR><LF></p> <p>Return: VIDIN_FORMAT <i>in</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = { }</p> <p>Description: Get the resolution of the video input <i>prm</i> = {<horizontal>x<vertical>,
<rate>; <HDR info>;<ColorSpace>,<DeepColor>} • horizontal = An integer value representing the horizontal. • vertical = An integer value representing the vertical. May have an additional qualifier such as 'i' or 'p'. • rate = An integer value representing the refresh rate. • HDR info = none hdr/ static hdr • Color space = RGB / Ycbcr 444 /Ycbcr 422/Ycbcr 420 • DeepColor = 8 bit/10 bit /12 bit/ 16 bit</p>	<p>Command: GET VIDIN_FORMAT i01<CR><LF></p> <p>Return: VIDIN_FORMAT <i>i01</i> 3840x2160,60;none hdr;rgb;8bit<CR><LF></p> <p>Description: Get the HDMI input1 video information</p>

NO.	Description	Command	Example
5	Get input audio format information	<p>Command: GET AUDIN_FORMAT <i>in</i><CR><LF></p> <p>Return: AUDIN_FORMAT <i>in</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = { }</p> <p>Description: Get the resolution of the video input <i>prm</i> = {<NONE / PCM / COMPRESSED/ HBR>; <Sampling rate>}</p>	<p>Command: GET AUDIN_FORMAT <i>i01</i><CR><LF></p> <p>Return: AUDIN_FORMAT <i>i01</i> PCM;48kHz<CR><LF> ></p> <p>Description: HDMI input1 supports PCM 48KHz</p>
6	Get hdcp version of input video	<p>Command: GET VIDIN_HDCP <i>in</i><CR><LF></p> <p>Return: VIDIN_HDCP <i>in</i> <i>prm</i><CR><LF></p> <p>Parameter: <i>in</i> = {i01, i02, i03, i04}; <i>prm</i> = {no hdcp, hdcp1.4, hdcp2.2}</p> <p>Description: Get hdcp version of input video.</p>	<p>Command: GET VIDIN_HDCP <i>i01</i><CR><LF></p> <p>Return: VIDIN_HDCP <i>i01 no</i> <i>hdcp</i><CR><LF></p> <p>Description: Get the HDCP status of HDMI input1.</p>

NO.	Description	Command	Example
HDBT UART			
1	Get uart property of HDBT port	<p>Command: GET UART_CFG out<CR><LF></p> <p>Return: UART_CFG out <i>prm1</i> <i>prm2 prm3</i> <i>prm4</i><CR><LF></p> <p>Parameter: out = {5001 UART1}; prm1 = {9600, 19200, 38400, 57600, 115200} prm2 = {NONE, ODD, EVEN} prm3 = {7,8} prm4 = {1,2}</p> <p>Description: Get uart property of HDBT port.</p>	<p>Command: GET UART_CFG 5001<CR><LF></p> <p>Return: UART_CFG 5001 9600 none 8 1<CR><LF></p> <p>Description: Get uart property of HDBT port.</p>

NO.	Description	Command	Example
2	Set uart property of HDBT port	<p>Command: SET UART_CFG out <i>prm1 prm2 prm3</i> <i>prm4</i><CR><LF></p> <p>Return: UART_CFG out <i>prm1</i> <i>prm2 prm3</i> <i>prm4</i><CR><LF></p> <p>Parameter: out = {5001 UART1}; prm1 = {9600, 19200, 38400, 57600, 115200} prm2 = {NONE, ODD, EVEN} prm3 = {7, 8} prm4 = {1, 2}</p> <p>Description: Set uart property of HDBT port.</p>	<p>Command: SET UART_CFG 5001 9600 none 8 1<CR><LF></p> <p>Return: UART_CFG 5001 9600 none 8 1<CR><LF></p> <p>Description: Set uart property of HDBT port.</p>



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