

SW-640L-TX-W

Application Programming Interface

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0. Device Communication

0.1 Overview

The following contains the connection and commands to control the SW-640L-TX-W. By following the content contained in this document, the device can be controlled and configured via 3rd party control system.

⚠ IMPORTANT NOTE: Due to differences between WyreStorm device model versions within a series, some commands have different parameters based on the model and version. These differences are noted where applicable and should be followed, as sending an incorrect parameter may cause the unit to lock up and become inoperable.

0.2 Network Connection

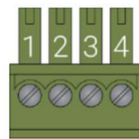
By default, the IP address is assigned by the DHCP server. If the DHCP server is not available the unit will use a link local IP address based on its MAC address, if the unit was not already configured via the Web interface.

Default communication port number is 23.

0.3 Serial Connection

The SW-640L-TX-W uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.

RS-232 Settings
Baud Rate: 9600
Data Bits: 8bits
Parity: None
Stop Bits: 1bit
Flow Control: None



WyreStorm Connector			3 rd Party device
Pin 1	12V DC Out	No Connection	Reserved
Pin 2	TX (Transmit)	---> To --->	RX (Receive)
Pin 3	RX (Receive)	---> To --->	TX (Transmit)
Pin 4	G (Ground)	---> To --->	G (Ground)

0.4 Command Delimiters for Sent Commands

All commands should be delimited with carriage return and line feed.

Accepted delimiter characters are:

Character	Shorthand	Hex Notation	Escape Notation	Decimal Notation
Line Feed	LF	0A	\n	10
Carriage Return + Line Feed	CR LF	0D 0A	\r\n	13 10

Please note, most 3rd party control software will either append these characters automatically or an option to specify them will be present. It is important that the last delimited character is LF and not CR.

1. Device Management

1.1 Set Device Alias

Set the device alias.

This alias is used as the receiver name for BYOD screen-casting methods such as Miracast and AirPlay, and is also used as the SSID for the built-in soft AP.

Command Structure SET ALIAS < DeviceName >	Parameters: DeviceName = the alias to set, up to 31 characters. Only letters, digits, spaces, underscore ('_') and hyphen ('-') are allowed. Spaces cannot appear at the start or end.
Response Structure ALIAS < DeviceName >	
Command Example SET ALIAS MeetingRoom	
Response Example ALIAS MeetingRoom	
Additional Notes: Default value: SW-640L-TX-W-XXXX, where XXXX are the last two bytes of the MAC address in hexadecimal. For example: SW-640L-TX-W-327C	

1.2 Get Device Alias

Command Structure GET ALIAS	Parameters:
Response Structure ALIAS < DeviceName >	
Command Example GET ALIAS	
Response Example ALIAS MeetingRoom	
Additional Notes:	

1.3 Get Device Version Information

Retrieve version information for each software module on the device.

Command Structure GET VER < ALL ModuleName >	Parameters: ModuleName = The software module to query. Currently supported values: MAINSOC, USBCCHIP, USBCVIDEO, VIDEOCHIP ALL = Retrieve version information for all software modules; the device will return each module's version information line by line.
Response Structure VER ModuleName Version or VER ModuleName1 Version1 VER ModuleName2 Version2 ...	
Command Example GET VER MAINSOC	
Response Example VER MAINSOC 1.4.0	
Additional Notes:	

1.4 Device Reboot

Command the device to reboot.

Command Structure REBOOT	Parameters:
Response Structure REBOOT	
Command Example REBOOT	
Response Example REBOOT	
Additional Notes:	

1.5 Device Reset

Command to restore the device to factory settings

Command Structure RESET [GUIDE]	Parameters: If the optional parameter GUIDE is provided, only the image of the Guide screen will be reset.
Response Structure RESET [GUIDE]	
Command Example RESET	
Response Example RESET	
Additional Notes:	

1.6 Display OSD Elements

Display all allowed OSD elements for 10 seconds.

Command Structure SET SHOWOSD	Parameters:
Response Structure SHOWOSD	
Command Example SET SHOWOSD	
Response Example SHOWOSD	
Additional Notes:	

1.7 Set OSD Element Display

Configure whether a specific OSD element is allowed to be displayed.

Command Structure SET SHOWOSD < DEVICENAME IPADDRESS WIFIPWD ACCESSCODE > < ON OFF >	Parameters: For the first parameter, the four values listed correspond to: device name, IP address, Wi-Fi password, and access code respectively.
Response Structure SHOWOSD < DEVICENAME IPADDRESS WIFIPWD ACCESSCODE > < ON OFF >	
Command Example SET SHOWOSD DEVICENAME OFF	
Response Example SHOWOSD DEVICENAME OFF	
Additional Notes: Default: The four OSD elements mentioned here are enabled (ON) by default.	

1.8 Get OSD Elements Display

Retrieve the configuration that indicates whether OSD elements are allowed to be displayed.

Command Structure GET SHOWOSD < DEVICENAME IPADDRESS WIFIPWD ACCESSCODE ALL >	Parameters: ALL = retrieve display settings for all OSD elements; the device will return each OSD element's display setting on a separate line.
Response Structure SHOWOSD < DEVICENAME IPADDRESS WIFIPWD ACCESSCODE > < ON OFF > or SHOWOSD DEVICENAME < ON OFF > SHOWOSD IPADDRESS < ON OFF > SHOWOSD WIFIPWD < ON OFF > SHOWOSD ACCESSCODE < ON OFF >	
Command Example GET SHOWOSD DEVICENAME	
Response Example SHOWOSD DEVICENAME OFF	
Additional Notes:	

1.9 Get MAC Address

Get the device's MAC address information

Command Structure GET MACADDR < CONTROL SERVICE ALL >	Parameters: CONTROL = Get the MAC address of the control network port SERVICE = Get the MAC address of the service network port ALL = Get the MAC addresses of both ports above
Response Structure MACADDR < CONTROL SERVICE > < MACAddress > or MACADDR CONTROL < MACAddress0 > MACADDR SERVICE < MACAddress1 >	
Command Example GET MACADDR CONTROL	
Response Example MACADDR CONTROL E4:CE:02:13:5F:A1	
Additional Notes:	

2. Input/Output Settings

2.1 Set Output Resolution

Set the resolution for the HDMI output interface.

You can specify a resolution directly, or let the device automatically determine the best resolution.

Command Structure	Parameters: AUTO = Automatically select the best output resolution based on the EDID of the connected display. Resolution = A specific resolution. Available options: 3840x2160P@60 3840x2160P@50 3840x2160P@30 3840x2160P@25 3840x2160P@24 1920x1080P@60 1920x1080P@50 1920x1080P@30 1920x1080P@25 1920x1080P@24 1680x1050P@60 1600x1200P@60 1440x900P@60 1366x768P@60 1280x1024P@60 1280x720P@60 1280x720P@50 1024x768P@60 800x600P@60 720x480P@60 640x480P@60 Note: 3840x2160P@60 and 3840x2160P@50 can only be used on OUT1.
SET VIDOUT_RES < OUT1 OUT2 > < AUTO Resolution >	
Response Structure	
VIDOUT_RES < OUT1 OUT2 > < AUTO Resolution >	
Command Example	
SET VIDOUT_RES OUT1 AUTO	
Response Example	
VIDOUT_RES OUT1 AUTO	
Additional Notes: Default: Both outputs are set to AUTO	

2.2 Get Output Resolution

Get the resolution of the HDMI output interface(s).

Command Structure GET VIDOUT_RES < OUT1 OUT2 ALL >	Parameters: ALL = Get the resolutions of both output interfaces; the device will return the two outputs' resolutions on two separate lines. AUTO = The output is set to automatic resolution. DISCONNECTED = The output is set to automatic resolution but no display is currently connected to that output.
Response Structure VIDOUT_RES < OUT1 OUT2 > < Resolution DISCONNECTED > [AUTO] or VIDOUT_RES OUT1 < Resolution DISCONNECTED > [AUTO] VIDOUT_RES OUT2 < Resolution DISCONNECTED > [AUTO]	
Command Example GET VIDOUT_RES OUT1	
Response Example VIDOUT_RES OUT1 3840x2160P@60 AUTO	
Additional Notes:	

2.3 Set Input Port HDCP

Set whether HDCP is enabled on an input port.

Command Structure SET HDCP_S < IN1 IN2 IN3 IN4 > < ON OFF >	Parameters:
Response Structure HDCP_S < IN1 IN2 IN3 IN4 > < ON OFF >	
Command Example SET HDCP_S IN1 OFF	
Response Example HDCP_S IN1 OFF	
Additional Notes: Default: HDCP is enabled on all input ports.	

2.4 Get Input Interface HDCP

Get whether HDCP is enabled on an input interface.

Command Structure GET HDCP_S < IN1 IN2 IN3 IN4 ALL >	Parameters: ALL = Get the HDCP on/off status for all input interfaces
Response Structure HDCP_S < IN1 IN2 IN3 IN4 > < ON OFF > or HDCP_S IN1 < ON OFF > HDCP_S IN2 < ON OFF > HDCP_S IN3 < ON OFF > HDCP_S IN4 < ON OFF >	
Command Example GET HDCP_S IN1	
Response Example HDCP_S IN1 OFF	
Additional Notes:	

2.5 Get Input Signal HDCP Status

Get the HDCP encryption status of the input signal.

Command Structure GET VIDIN_HDCP < IN1 IN2 IN3 IN4 ALL >	Parameters: ALL = Get the HDCP encryption status of all input signals
Response Structure VIDIN_HDCP < IN1 IN2 IN3 IN4 > < OFF HDCP1.4 HDCP2.2 > or VIDIN_HDCP IN1 < OFF HDCP1.4 HDCP2.2 > VIDIN_HDCP IN2 < OFF HDCP1.4 HDCP2.2 > VIDIN_HDCP IN3 < OFF HDCP1.4 HDCP2.2 > VIDIN_HDCP IN4 < OFF HDCP1.4 HDCP2.2 >	
Command Example GET VIDIN_HDCP IN1	
Response Example VIDIN_HDCP IN1 OFF	
Additional Notes:	

2.6 Set HDCP for Output Interfaces

Enable or disable HDCP on an output interface.

Command Structure SET HDCP < OUT1 OUT2 > < ON OFF >	Parameters:
---	-------------

Response Structure HDCP < OUT1 OUT2 > < ON OFF >	
Command Example SET HDCP OUT1 OFF	
Response Example HDCP OUT1 OFF	
Additional Notes: Default: HDCP is enabled on all output interfaces.	

2.7 Get Output Interface HDCP Status

Retrieve whether HDCP is enabled on an output interface.

Command Structure GET HDCP < OUT1 OUT2 ALL >	Parameters: ALL = Retrieve HDCP on/off status for all output interfaces
Response Structure HDCP < OUT1 OUT2 > < ON OFF > or HDCP OUT1 < ON OFF > HDCP OUT2 < ON OFF >	
Command Example GET HDCP OUT1	
Response Example HDCP OUT1 OFF	
Additional Notes:	

2.8 Get Output Signal HDCP Status

Get the HDCP encryption status of the output signal.

Command Structure GET VIDOUT_HDCP < OUT1 OUT2 ALL >	Parameters: ALL = Get HDCP encryption status for all output signals
Response Structure VIDOUT_HDCP < OUT1 OUT2 > < OFF HDCP1.4 HDCP2.2 > or VIDOUT_HDCP OUT1 < OFF HDCP1.4 HDCP2.2 > VIDOUT_HDCP OUT2 < OFF HDCP1.4 HDCP2.2 >	
Command Example GET VIDOUT_HDCP OUT1	
Response Example VIDOUT_HDCP OUT1 HDCP1.4	
Additional Notes:	

2.9 Get Input Connection Status

Get the connection status of the input interfaces

Command Structure GET VIDIN_CONNECT < IN1 IN2 IN3 IN4 ALL >	Parameters: ALL = Get the connection status of all input interfaces
Response Structure VIDIN_CONNECT < IN1 IN2 IN3 IN4 > < DISCONNECTED CONNECTED > or VIDIN_CONNECT IN1 < DISCONNECTED CONNECTED > VIDIN_CONNECT IN2 < DISCONNECTED CONNECTED > VIDIN_CONNECT IN3 < DISCONNECTED CONNECTED > VIDIN_CONNECT IN4 < DISCONNECTED CONNECTED >	
Command Example GET VIDIN_CONNECT IN2	
Response Example VIDIN_CONNECT IN2 DISCONNECTED	
Additional Notes:	

2.10 Get Input Signal Status

Retrieve the status of input signals.

Command Structure GET VIDIN_SIG < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 ALL >	Parameters: ALL = Retrieve the status of all input signals
Response Structure VIDIN_SIG < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > < NO VALID > or VIDIN_SIG IN1 < NO VALID > VIDIN_SIG IN2 < NO VALID > VIDIN_SIG IN3 < NO VALID > VIDIN_SIG IN4 < NO VALID > VIDIN_SIG BYOD1 < NO VALID > VIDIN_SIG BYOD2 < NO VALID > VIDIN_SIG BYOD3 < NO VALID > VIDIN_SIG BYOD4 < NO VALID >	
Command Example GET VIDIN_SIG IN2	
Response Example VIDIN_SIG IN2 VALID	
Additional Notes:	

2.11 Get Input Video Format

Get the video format of an input signal.

Command Structure GET VIDIN_FORMAT < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 ALL >	Parameters: ALL = Retrieve the video formats of all input interfaces INVALID = No valid video signal is detected on the input interface
Response Structure VIDIN_FORMAT < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > < INVALID VideoFormat > or VIDIN_FORMAT IN1 < INVALID VideoFormat > VIDIN_FORMAT IN2 < INVALID VideoFormat > VIDIN_FORMAT IN3 < INVALID VideoFormat > VIDIN_FORMAT IN4 < INVALID VideoFormat > VIDIN_FORMAT BYOD1 < INVALID VideoFormat > VIDIN_FORMAT BYOD2 < INVALID VideoFormat > VIDIN_FORMAT BYOD3 < INVALID VideoFormat > VIDIN_FORMAT BYOD4 < INVALID VideoFormat >	The format of the parameter VideoFormat: < WidthXHeight[P],FrameRate;HDRInfo;EncMode;ColorDepth > The value and meaning of every field are as follows: - Width = The width of the video - Height = The height of the video - P = Progressive video format - FrameRate = Frame rate - HDRInfo = HDR information. The device currently does not support HDR, so this value is always NONE HDR. - EncMode = Encoding mode. Available values: RGB, YUV444, YUV422, H.264 - ColorDepth = Color depth. Currently only 8BIT is supported - An actual example of VideoFormat: 1920X1080P,60;NONE HDR;RGB;8BIT
Command Example GET VIDIN_FORMAT IN2	
Response Example VIDIN_FORMAT IN2 3840X2160P,60;NONE HDR;RGB;8BIT	
Additional Notes:	

2.12 Get Input Audio Format

Get the audio format of the input signal.

Command Structure GET AUDIN_FORMAT < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 ALL >	Parameters: ALL = Get the audio format of all input interfaces.
Response Structure AUDIN_FORMAT < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > < INVALID AudioFormat > or AUDIN_FORMAT IN1 < INVALID AudioFormat > AUDIN_FORMAT IN2 < INVALID AudioFormat > AUDIN_FORMAT IN3 < INVALID AudioFormat > AUDIN_FORMAT IN4 < INVALID AudioFormat > AUDIN_FORMAT BYOD1 < INVALID AudioFormat > AUDIN_FORMAT BYOD2 < INVALID AudioFormat > AUDIN_FORMAT BYOD3 < INVALID AudioFormat > AUDIN_FORMAT BYOD4 < INVALID AudioFormat >	INVALID = No valid audio signal detected on the input interface. The format of the AudioFormat parameter: < Encoding;SamplingRate;SamplingWidth > The value and meaning of each field are as follows: - Encoding = Audio encoding mode. Available values: PCM, AAC, MP3, OPUS - SamplingRate = Sampling rate, for example 48kHz - SamplingWidth = Sampling width. Available values: 8BIT, 16BIT
Command Example GET AUDIN_FORMAT IN2	Example AudioFormat: PCM;48kHz;8BIT
Response Example AUDIN_FORMAT IN2 PCM;48kHz;8BIT	
Additional Notes:	

2.13 Set Output Volume

Set the volume for all output audio signals at once.

Command Structure SET VOLGAIN_DATA < OutputVolume >	Parameters: The unit of OutputVolume is dB; valid range: -100 to 6.
Response Structure VOLGAIN_DATA < OutputVolume >	
Command Example SET VOLGAIN_DATA -3	
Response Example VOLGAIN_DATA -3	
Additional Notes: Default value: 0	

2.14 Get Output Volume

Retrieve the volume level of the output audio signal.

Command Structure GET VOLGAIN_DATA	Parameters:
Response Structure VOLGAIN_DATA < OutputVolume >	
Command Example GET VOLGAIN_DATA	
Response Example VOLGAIN_DATA -3	
Additional Notes:	

2.15 Set Output Mute

Mute all output audio signals simultaneously.

Command Structure SET AUDIO_MUTE < ON OFF >	Parameters: ON = Enable output mute
Response Structure AUDIO_MUTE < ON OFF >	
Command Example SET AUDIO_MUTE ON	
Response Example AUDIO_MUTE ON	
Additional Notes: Default: OFF (not muted)	

2.16 Get Output Mute

Retrieves the mute setting for the output audio signal.

Command Structure GET AUDIO_MUTE	Parameters:
Response Structure AUDIO_MUTE < ON OFF >	
Command Example GET AUDIO_MUTE	
Response Example AUDIO_MUTE ON	
Additional Notes:	

2.17 Get Output Connection Status

Retrieve the connection status of the output interface(s) (whether a display is connected).

Command Structure GET VIDOUT_CONNECT < OUT1 OUT2 ALL >	Parameters: ALL = Get the connection status of both output interfaces.
Response Structure VIDOUT_CONNECT < OUT1 OUT2 > < CONNECTED DISCONNECTED > > 或 VIDOUT_CONNECT OUT1 < CONNECTED DISCONNECTED > VIDOUT_CONNECT OUT2 < CONNECTED DISCONNECTED >	
Command Example GET VIDOUT_CONNECT OUT2	
Response Example VIDOUT_CONNECT OUT2 CONNECTED	
Additional Notes:	

2.18 Set MST

Configure the USB-C input interface MST function. MST will be actually activated only when both of the following conditions are met:

1. This setting is set to MST
2. Both HDMI outputs are connected

When MST is active, the device's video switching behavior will differ from normal.

Command Structure SET USBC_DM < SST MST >	Parameters: SST = USB-C input operates in SST mode; MST is not supported MST = USB-C input operates in MST mode
Response Structure USBC_DM < SST MST >	
Command Example SET USBC_DM MST	
Response Example USBC_DM MST	
Additional Notes: Default: SST (MST disabled)	

2.19 Get MST

Retrieve the MST capability of the USB-C input interface.

Command Structure GET USBC_DM	Parameters:
Response Structure USBC_DM < SST MST >	
Command Example GET USBC_DM	
Response Example USBC_DM MST	
Additional Notes:	

3. Video Switching

3.1 Set Automatic Switching

Enable or disable the automatic switching feature.

When automatic switching is enabled, the device supports the following functions:

1. Automatic switching of video sources
2. Automatic switching of multi-view layouts
3. Fallback display of video sources

Command Structure SET AUTOSW_FN < ON OFF >	Parameters: ON = Enables automatic switching
Response Structure AUTOSW_FN < ON OFF >	
Command Example SET AUTOSW_FN OFF	
Response Example AUTOSW_FN OFF	
Additional Notes: Default: ON	

3.2 Get Automatic Switching Status

Retrieve the on/off status of the automatic switching function.

Command Structure GET AUTOSW_FN	Parameters:
Response Structure AUTOSW_FN < ON OFF >	
Command Example GET AUTOSW_FN	
Response Example AUTOSW_FN OFF	
Additional Notes:	

3.3 Configure Multi-View Function

Enable or disable the multi-view function.

Command Structure SET MV_ENABLE < ON OFF >	Parameters: ON = Enable the multi-view function.
Response Structure MV_ENABLE < ON OFF >	
Command Example SET MV_ENABLE OFF	
Response Example MV_ENABLE OFF	
Additional Notes: Default: ON	

3.4 Get Multi-View Function Status

Get the on/off status of the multi-view feature.

Command Structure GET MV_ENABLE	Parameters:
Response Structure MV_ENABLE < ON OFF >	
Command Example GET MV_ENABLE	
Response Example MV_ENABLE OFF	
Additional Notes:	

3.5 Switch Input to All Outputs

Switch the specified input to display full-screen on all outputs.

Command Structure SET SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 >	Parameters:
Response Structure SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > OUT1 SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > OUT2	
Command Example SET SW IN1	
Response Example SW IN1 OUT1 SW IN1 OUT2	
Additional Notes:	

3.6 Switch Input to a Specific Output

Switch an input to full-screen on a specified output.

If the specified output is not connected, the device will display the input full-screen on the currently connected output. The response message always returns the output that is actually displaying the input.

Command Structure SET SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > < OUT1 OUT2 >	Parameters:
Response Structure SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > < OUT1 OUT2 >	
Command Example SET SW IN1 OUT1	
Response Example SW IN1 OUT1	
Additional Notes: If only one output is currently connected, the second parameter is ignored; the specified input will be shown on the single connected output.	

3.7 Display GUIDE Screen

Show the Guide screen on all outputs. This means no video sources are displayed. While in this state, if the auto-standby feature is enabled, the device will enter standby automatically after the Guide screen has been shown for a duration equal to the auto-standby timeout. Note: if the auto-standby timeout is 0, this command will cause the device to enter standby immediately.

Command Structure SET SW GUIDE	Parameters:
Response Structure SW GUIDE	
Command Example SET SW GUIDE	
Response Example SW GUIDE	
Additional Notes:	

3.8 Get Display Status

Get the display status of a specific output.

Command Structure	Parameters: ALL = Retrieve display status for all outputs GUIDE = The output is not displaying a video source and is showing the guide screen MV = The output is in multi-view mode (multiple sources shown) DISCONNECTED = The output is not connected
GET SW < OUT1 OUT2 ALL >	
Response Structure	
SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 GUIDE MV DISCONNECTED > < OUT1 OUT2 >	
或	
SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 GUIDE MV DISCONNECTED > OUT1	
SW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 GUIDE MV DISCONNECTED > OUT2	
Command Example	
GET SW OUT1	
Response Example	
SW IN1 OUT1	
Additional Notes:	

3.9 Set Current Layout

Switch the multi-view layout. The parameter is the layout name.

Command Structure SET MV_LAYOUT < FULLSCREEN DUALVIEW 3WAYSPLIT QUADVIEW >	Parameters:
Response Structure MV_LAYOUT < FULLSCREEN DUALVIEW 3WAYSPLIT QUADVIEW >	
Command Example SET MV_LAYOUT DUALVIEW	
Response Example MV_LAYOUT DUALVIEW	
Additional Notes:	

3.10 Set Current Layout with ID

Switch the multiview layout. The parameter is the layout ID in hexadecimal format.

Command Structure SET MV_LAYOUT < 0X100 0X101 0X102 0X103 >	Parameters: The four hexadecimal IDs correspond to the four layout names defined in the previous API.
Response Structure MV_LAYOUT < 0X100 0X101 0X102 0X103 >	
Command Example SET MV_LAYOUT 0X101	
Response Example MV_LAYOUT 0X101	
Additional Notes:	

3.11 Get Current Layout ID and Name

Retrieve the current multi-view layout name

Command Structure GET MV_LAYOUT	Parameters:
Response Structure MV_LAYOUT < < 0X100 FULLSCREEN > < 0X101 DUALVIEW > < 0X102 3WAYSPLIT > < 0X103 QUADVIEW > >	
Command Example GET MV_LAYOUT	
Response Example MV_LAYOUT 0X101 DUALVIEW	
Additional Notes:	

3.12 Set Layout and Video Sources

Switch multi-view layouts and set the video source for each subwindow.

Command Structure SET MV_WIN_SRC < FULLSCREEN DUALVIEW 3WAYSPLIT QUADVIEW CURRENT > < WinNo1 > < Src1 > < WinNo2 > < Src2 > ...	Parameters: CURRENT = Keep the current layout; only switch the video source(s) for the specified window(s). WinNo = Win1 Win2 Win3... Src1 Src2... values can be one of < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 NONE > - NONE = Do not display any video source in that subwindow; the subwindow is left empty.
Response Structure MV_WIN_SRC < FULLSCREEN DUALVIEW 3WAYSPLIT QUADVIEW > < WinNo1 > < Src1 > < WinNo2 > < Src2 > ...	
Command Example SET MV_WIN_SRC DUALVIEW WIN1 IN1 WIN2 IN2	
Response Example MV_WIN_SRC DUALVIEW WIN1 IN1 WIN2 IN2	
Additional Notes:	

3.13 Get Layout and Video Sources

Retrieve the current layout and the video source for each sub-window.

Command Structure GET MV_WIN_SRC	Parameters: NONE = Currently connected to dual outputs; multi-view is not supported.
Response Structure MV_WIN_SRC NONE 或 MV_WIN_SRC < FULLSCREEN DUALVIEW 3WAYSPLIT QUADVIEW > < WinNo1 > < Src1 > < WinNo2 > < Src2 > ...	
Command Example GET MV_WIN_SRC	
Response Example MV_WIN_SRC DUALVIEW WIN1 IN1 WIN2 IN2	
Additional Notes: This API returns normally when connected to a single output but multi-view is disabled.	

3.14 Get Video Source of Specified Window

Get the video source of the specified subwindow.

Command Structure GET MV_WIN_SRC CURRENT WinNo	Parameters: NONE = The system is currently connected to dual outputs and does not support multi-view.
Response Structure MV_WIN_SRC NONE 或 MV_WIN_SRC CURRENT < WinNo > < Src >	
Command Example GET MV_WIN_SRC CURRENT WIN2	
Response Example MV_WIN_SRC CURRENT WIN2 IN2	
Additional Notes: If connected to a single output but multi-view is disabled, this API returns normally. This API is a subset of the previous API and is used to support the SYN-TOUCH10.	

4. Audio and Other Signal Switching

4.1 Set Audio Auto-Switching

Enable or disable audio auto-switching.

Command Structure SET AUDIO_AUTOSW_FN < ON OFF >	Parameters: Default: ON
Response Structure AUDIO_AUTOSW_FN < ON OFF >	
Command Example SET AUDIO_AUTOSW_FN OFF	
Response Example AUDIO_AUTOSW_FN OFF	
Additional Notes:	

4.2 Get Audio Auto-Switch Status

Command Structure GET AUDIO_AUTOSW_FN	Parameters:
Response Structure AUDIO_AUTOSW_FN < ON OFF >	
Command Example GET AUDIO_AUTOSW_FN	
Response Example AUDIO_AUTOSW_FN OFF	
Additional Notes:	

4.3 Switch to Wired Audio Source

Use this API to force the device to always output audio from a wired source when audio auto-switching is disabled.

Command Structure SET AUDIOSW < IN1 IN2 IN3 IN4 >	Parameters: STOP = The device is currently displaying the Guide screen and is not outputting audio
Response Structure AUDIOSW < IN1 IN2 IN3 IN4 > [STOP]	
Command Example SET AUDIOSW IN2	
Response Example AUDIOSW IN2	
Additional Notes:	

4.4 Switch to BYOD Audio Source

When audio auto-switching is disabled, make the device temporarily output audio from a BYOD source. The device will play the BYOD source's audio until that BYOD source is disconnected, then it will switch back to the previously configured wired audio source. In short, this is a temporary switch.

Command Structure	Parameters:
SET AUDIOSW < BYOD1 BYOD2 BYOD3 BYOD4 >	
Response Structure	
AUDIOSW < BYOD1 BYOD2 BYOD3 BYOD4 >	
Command Example	
SET AUDIOSW BYOD1	
Response Example	
AUDIOSW BYOD1	
Additional Notes:	

4.5 Get Current Audio Source

Retrieve the audio source currently being output by the device. When the device displays the Guide screen it stops outputting audio; in that case this API returns the most recent wired audio source that was output.

Command Structure GET AUDIOSW	Parameters: STOP = Device is currently displaying the Guide screen and is not actually outputting audio
Response Structure AUDIOSW < IN1 IN2 IN3 IN4 BYOD1 BYOD2 BYOD3 BYOD4 > [STOP]	
Command Example GET AUDIOSW	
Response Example AUDIOSW IN1	
Additional Notes:	

4.6 Set USB Automatic Switching

Configure the device to automatically switch the USB host.

Command Structure SET USB_AUTOSW_FN < ON OFF >	Parameters: ON = Enable USB automatic switching
Response Structure USB_AUTOSW_FN < ON OFF >	
Command Example SET USB_AUTOSW_FN ON	
Response Example USB_AUTOSW_FN ON	
Additional Notes: Default: ON	

4.7 Get USB Auto-Switch Status

Retrieve the status of the USB auto-switch.

Command Structure GET USB_AUTOSW_FN	Parameters:
Response Structure USB_AUTOSW_FN < ON OFF >	
Command Example GET USB_AUTOSW_FN	
Response Example USB_AUTOSW_FN ON	
Additional Notes:	

4.8 Set USB Host

Manually switch the USB host

Command Structure SET USB_HOST < USBCIN1 USBCIN2 USBHOST1 USBHOST2 WIRELESS >	Parameters: WIRELESS = USB host connected to the main processor for a wireless conference
Response Structure USB_HOST < USBCIN1 USBCIN2 USBHOST1 USBHOST2 WIRELESS >	
Command Example SET USB_HOST USBHOST1	
Response Example USB_HOST USBHOST1	
Additional Notes:	

4.9 Get USB Host

Retrieve the current USB host.

Command Structure GET USB_HOST	Parameters:
Response Structure USB_HOST < USBCIN1 USBCIN2 USBHOST1 USBHOST2 WIRELESS >	
Command Example GET USB_HOST	
Response Example USB_HOST USBHOST1	
Additional Notes:	

5. Sleep/Standby and Peripheral Control

5.1 Set Automatic Standby

Configure the device automatic standby feature.

When automatic standby is enabled, if the device continuously displays the Guide screen for a period equal to the standby timeout value, it will send power-off commands to all connected displays and disable HDMI +5V and TMDS signals.

Command Structure SET AUTO_STANDBY_FN < ON OFF >	Parameters: ON = Enable automatic standby feature
Response Structure AUTO_STANDBY_FN < ON OFF >	
Command Example SET AUTO_STANDBY_FN OFF	
Response Example AUTO_STANDBY_FN OFF	
Additional Notes: Default: ON	

5.2 Get Auto-Standby

Get the device auto-standby switch status

Command Structure GET AUTO_STANDBY_FN	Parameters:
Response Structure AUTO_STANDBY_FN < ON OFF >	
Command Example GET AUTO_STANDBY_FN	
Response Example AUTO_STANDBY_FN OFF	
Additional Notes:	

5.3 Set Auto Standby Timeout

Set the auto-standby timeout value.

Command Structure SET AUTO_STANDBY_D < TimeOut >	Parameters: TimeOut range: 0-3600 seconds.
Response Structure AUTO_STANDBY_D < TimeOut >	
Command Example SET AUTO_STANDBY_D	
Response Example AUTO_STANDBY_D 100	
Additional Notes: Default value: 120	

5.4 Get Automatic Standby Timeout

Retrieve the automatic standby timeout value.

Command Structure GET AUTO_STANDBY_D	Parameters:
Response Structure AUTO_STANDBY_D < TimeOut >	
Command Example GET AUTO_STANDBY_D	
Response Example AUTO_STANDBY_D 100	
Additional Notes:	

5.5 Set Device Power On or Standby

Manually control the device power: on or standby.

Command Structure SET STANDBY < ON OFF >	Parameters: ON = Power on OFF = Standby
Response Structure STANDBY < ON OFF >	
Command Example SET STANDBY ON	
Response Example STANDBY ON	
Additional Notes:	

5.6 Get Device Standby

Retrieve whether the device is powered on.

Command Structure GET STANDBY	Parameters:
Response Structure STANDBY < ON OFF >	
Command Example GET STANDBY	
Response Example STANDBY ON	
Additional Notes:	

5.7 Send CEC Power On/Off Command

Send a CEC power-on or power-off command to the specified output interface.

Command Structure	Parameters:
SET CEC_PWR < OUT1 OUT2 > < ON OFF >	
Response Structure	
CEC_PWR < OUT1 OUT2 > < ON OFF >	
Command Example	
SET CEC_PWR OUT1 ON	
Response Example	
CEC_PWR OUT1 ON	
Additional Notes:	

5.8 Set CEC Power On/Off Commands

Set the CEC power-on or power-off command for the specified output interface.

Command Structure SET CECCMD_EDIT < OUT1 OUT2 > < ON OFF > < CECCode >	Parameters: The parameter CECCode is the actual CEC message string in hexadecimal format, with no spaces between adjacent bytes.
Response Structure CECCMD_EDIT < OUT1 OUT2 > < ON OFF > < CECCode >	
Command Example SET CECCMD_EDIT OUT1 ON 4004	
Response Example CECCMD_EDIT OUT1 ON 4004	
Additional Notes: Default values: Power on: 4004 Power off: FF36	

5.9 Get CEC Power On/Off Command

Retrieve the CEC power-on or power-off command for a specified output interface.

Command Structure GET CECCMD_EDIT < OUT1 OUT2 > < ON OFF >	Parameters:
Response Structure CECCMD_EDIT < OUT1 OUT2 > < ON OFF > < CECCode >	
Command Example GET CECCMD_EDIT OUT1 ON	
Response Example CECCMD_EDIT OUT1 ON 4004	
Additional Notes:	

5.10 Get CEC Commands

Retrieve the CEC power-on and power-off commands for the specified output interface.

Command Structure GET CECCMD_EDIT < OUT1 OUT2 >	Parameters:
Response Structure CECCMD_EDIT < OUT1 OUT2 > ON < CECCode > CECCMD_EDIT < OUT1 OUT2 > OFF < CECCode >	
Command Example GET CECCMD_EDIT OUT1	
Response Example CECCMD_EDIT OUT1 ON 4004 CECCMD_EDIT OUT1 OFF FF36	
Additional Notes:	

5.11 Get All CEC Commands

Retrieve the CEC power-on and power-off commands for all output interfaces.

Command Structure GET CECCMD_EDIT ALL	Parameters:
Response Structure CECCMD_EDIT OUT1 ON < CECCode > CECCMD_EDIT OUT1 OFF < CECCode > CECCMD_EDIT OUT2 ON < CECCode > CECCMD_EDIT OUT2 OFF < CECCode >	
Command Example GET CECCMD_EDIT ALL	
Response Example CECCMD_EDIT OUT1 ON 4004 CECCMD_EDIT OUT1 OFF FF36 CECCMD_EDIT OUT2 ON 4004 CECCMD_EDIT OUT2 OFF FF36	
Additional Notes:	

5.12 Send CEC Command String

Send a CEC command string directly to a specified output interface.

Command Structure SET CEC_CMD < OUT1 OUT2 > < CECCode >	Parameters:
Response Structure CEC_CMD < OUT1 OUT2 > < CECCode >	
Command Example SET CEC_CMD OUT1 4004	
Response Example CEC_CMD OUT1 4004	
Additional Notes:	

5.13 Set UART Parameters

Set the UART's four parameters, including the baud rate.

Command Structure	Parameters: BaudRate is the baud rate. Valid values: 9600, 19200, 38400, 57600, 115200 Parity indicates parity checking. Valid values: NONE, ODD, EVEN DataBit is the number of data bits. Valid values: 7, 8 StopBit is the number of stop bits. Valid values: 1, 2
SET UART_CFG < BaudRate > < Parity > < DataBit > < StopBit >	
Response Structure	
UART_CFG < BaudRate > < Parity > < DataBit > < StopBit >	
Command Example	
SET UART_CFG 115200 NONE 8 1	
Response Example	
UART_CFG 115200 NONE 8 1	
Additional Notes: Default: 115200 NONE 8 1	

5.14 Get UART Parameters

Retrieve the UART baud rate and other serial parameters.

Command Structure GET UART_CFG	Parameters:
Response Structure UART_CFG < BaudRate > < Parity > < DataBit > < StopBit >	
Command Example GET UART_CFG	
Response Example UART_CFG 115200 NONE 8 1	
Additional Notes:	

5.15 Set UART Baud Rate

Set the UART serial port's baud rate.

Command Structure SET UART_B < BaudRate >	Parameters:
Response Structure UART_B < BaudRate >	
Command Example SET UART_B 115200	
Response Example UART_B 115200	
Additional Notes:	

5.16 Get UART Baud Rate

Gets the UART (serial port) baud rate parameter.

Command Structure GET UART_B	Parameters:
Response Structure UART_B < BaudRate >	
Command Example GET UART_B	
Response Example UART_B 115200	
Additional Notes:	

5.17 Set UART Command

Set UART command

Command Structure SET UART_CMD < CmdName > < HEX STR > < CmdStr >	Parameters: CmdName = Command name. Besides ON and OFF, this can be other custom commands, such as VolumeUp. HEX = Command is in hexadecimal format. STR = Command is in string format. CmdStr = The command string. For hexadecimal commands, adjacent bytes do not need to be separated by spaces.
Response Structure UART_CMD < CmdName > < HEX STR > < CmdStr >	
Command Example SET UART_CMD ON STR POWERON	
Response Example UART_CMD ON STR POWERON	
Additional Notes: By default, no UART commands are defined.	

5.18 Delete UART Command

Deletes a UART (serial) command.

Command Structure SET UART_CMD_D < CmdName >	Parameters:
Response Structure UART_CMD_D < CmdName >	
Command Example SET UART_CMD_D ON	
Response Example UART_CMD_D ON	
Additional Notes:	

5.19 Get UART Commands

Get one or all UART (serial) commands.

Command Structure GET UART_CMD < CmdName ALL >	Parameters:
Response Structure UART_CMD < CmdName > < HEX STR > < CmdStr > 或 UART_CMD < CmdName1 > < HEX STR > < CmdStr1 > UART_CMD < CmdName2 > < HEX STR > < CmdStr2 > ...	
Command Example GET UART_CMD ON	
Response Example UART_CMD ON STR POWERON	
Additional Notes:	

5.20 Send UART Command

Send a previously defined UART (serial) command.

Command Structure SET UART_CMD_S < CmdName >	Parameters:
Response Structure UART_CMD_S < CmdName >	
Command Example SET UART_CMD_S ON	
Response Example UART_CMD_S ON	
Additional Notes:	

5.21 Send UART Command String

Directly send serial (UART) data.

Command Structure SET UART_S < HEX STR > < CmdStr >	Parameters:
Response Structure UART_S < HEX STR > < CmdStr >	
Command Example SET UART_S STR POWERON	
Response Example UART_S STR POWERON	
Additional Notes:	

5.22 Set UART Power On/Off Function

Configure whether the UART participates in sending power on/off commands.

When the UART is operating in external-control mode, if this setting is enabled, then when the device automatically or manually enters or exits standby it will send the corresponding command over the UART as well as sending the CEC command.

Command Structure SET UARTPWR_FN < ON OFF >	Parameters:
Response Structure UARTPWR_FN < ON OFF >	
Command Example SET UARTPWR_FN ON	
Response Example UARTPWR_FN ON	
Additional Notes: Default: OFF	

5.23 Get UART Power On/Off Function

Retrieve whether the UART port is used to send power on/off commands.

Command Structure GET UARTPWR_FN	Parameters:
Response Structure UARTPWR_FN < ON OFF >	
Command Example GET UARTPWR_FN	
Response Example UARTPWR_FN ON	
Additional Notes:	

5.24 Send CEC and/or RS232 Commands

Send CEC and/or RS232 (serial) commands simultaneously.

Command Structure	Parameters: RS232 = Send only RS232 (serial) command(s) CEC = Send only CEC command(s) ALL = Send both RS232 and CEC commands
SET SEND_CMD < ON OFF > < RS232 CEC ALL >	
Response Structure	
SEND_CMD < ON OFF > < RS232 CEC ALL >	
Command Example	
SET SEND_CMD ON CEC	
Response Example	
SEND_CMD ON CEC	
Additional Notes:	

5.25 Set UART Operating Mode

The UART (serial port) can be used for external control or to provide API services (i.e., receive control). This API configures that mode.

Command Structure SET UART_MODE < API COM >	Parameters: API = The UART is used to provide API services externally; in this mode, functions in earlier APIs that actually send UART data will be disabled. COM = The UART is used for external control
Response Structure UART_MODE < API COM >	
Command Example SET UART_MODE API	
Response Example UART_MODE API	
Additional Notes: Default: COM	

5.26 Get UART Operating Mode

Retrieve the UART (serial port) operating mode.

Command Structure GET UART_MODE	Parameters:
Response Structure UART_MODE < API COM >	
Command Example GET UART_MODE	
Response Example UART_MODE API	
Additional Notes:	

5.27 Set RELAY Output

Set the state of the RELAY output.

Command Structure SET RELAY < NC NO >	Parameters:
Response Structure RELAY < NC NO >	
Command Example SET RELAY NC	
Response Example RELAY NC	
Additional Notes: Default: NC	

5.38 Get RELAY Output

Retrieve the status of the RELAY output.

Command Structure GET RELAY	Parameters:
Response Structure RELAY < NC NO >	
Command Example GET RELAY	
Response Example RELAY NC	
Additional Notes:	

5.29 Get MUTE Input

Retrieve the status of the MUTE input

Command Structure GET MUTE_CONTROL	Parameters: HIGH: The MUTE input is shorted, forcing mute to be active.
Response Structure MUTE_CONTROL < HIGH LOW >	
Command Example GET MUTE_CONTROL	
Response Example MUTE_CONTROL LOW	
Additional Notes:	

6. Network and BYOD settings

6.1 Set Network Isolation

When network isolation mode is enabled, the device's network ports are split into two separate VLANs, allowing connections to different networks.

This API is used to configure whether network isolation is enabled.

Command Structure SET NET_ISOLATION < ON OFF >	Parameters: ON = Enable network isolation
Response Structure NET_ISOLATION < ON OFF >	
Command Example SET NET_ISOLATION ON	
Response Example NET_ISOLATION ON	
Additional Notes: Default: OFF	

6.2 Get Network Isolation Settings

Retrieve whether network isolation mode is enabled

Command Structure GET NET_ISOLATION	Parameters:
Response Structure NET_ISOLATION < ON OFF >	
Command Example GET NET_ISOLATION	
Response Example NET_ISOLATION ON	
Additional Notes:	

6.3 Set IP Address - DHCP

Set IP address to DHCP mode

Command Structure SET IPADDR < CONTROL SERVICE > DHCP	Parameters: CONTROL = Sets the IP address for the primary or control network SERVICE = Sets the IP address for the service network in network-isolation mode
Response Structure IPADDR < CONTROL SERVICE > DHCP	
Command Example SET IPADDR CONTROL DHCP	
Response Example IPADDR CONTROL DHCP	
Additional Notes: By default, both networks use DHCP mode	

6.4 Set IP Address - Static

Configure a static IP address.

Command Structure SET IPADDR < CONTROL SERVICE > STATIC < IPAddress > < NetMask > [Gateway [DNSServer]]	Parameters: Gateway and DNS server are optional parameters.
Response Structure IPADDR < CONTROL SERVICE > STATIC < IPAddress > < NetMask > [Gateway [DNSServer]]	
Command Example SET IPADDR SERVICE STATIC 192.168.1.34 255.255.255.0 192.168.1.1 192.168.1.2	
Response Example IPADDR SERVICE STATIC 192.168.1.34 255.255.255.0 192.168.1.1 192.168.1.2	
Additional Notes:	

6.5 Get IP Address

Retrieve the device's IP address.

Command Structure GET IPADDR < CONTROL SERVICE ALL >	Parameters: ALL = Retrieve the IP addresses of both network ports
Response Structure IPADDR < CONTROL SERVICE > < DHCP STATIC > < IPAddress > < NetMask > [Gateway [DNSServer]] 或 IPADDR CONTROL < DHCP STATIC > < IPAddress > < NetMask > [Gateway [DNSServer]] IPADDR SERVICE < DHCP STATIC > < IPAddress > < NetMask > [Gateway [DNSServer]]	
Command Example GET IPADDR SERVICE	
Response Example IPADDR SERVICE STATIC 192.168.1.34 255.255.255.0 192.168.1.1 192.168.1.2	
Additional Notes:	

6.6 Configure USB-C Network Adapter

The network adapter on the USB-C port can be enabled or disabled. This API controls that feature.

Command Structure SET USBNIC < IN1 IN2 > < ON OFF >	Parameters: ON = Enable the USB-C port's network adapter function
Response Structure USBNIC < IN1 IN2 > < ON OFF >	
Command Example SET USBNIC IN1 OFF	
Response Example USBNIC IN1 OFF	
Additional Notes: Default: ON	

6.7 Get USB-C Network Adapter Switch Status

Retrieve the on/off status of the network adapter on the USB-C interface.

Command Structure GET USBNIC < IN1 IN2 ALL >	Parameters: ALL = Retrieve the switch status of both USB-C input interfaces' network adapters.
Response Structure USBNIC < IN1 IN2 > < ON OFF > 或 USBNIC IN1 < ON OFF > USBNIC IN2 < ON OFF >	
Command Example GET USBNIC IN1	
Response Example USBNIC IN1 OFF	
Additional Notes:	

6.8 Configure HTTPS

Command Structure SET HTTPS < ON OFF >	Parameters: ON = Enable HTTPS
Response Structure HTTPS < ON OFF >	
Command Example SET HTTPS ON	
Response Example HTTPS ON	
Additional Notes: Default: ON	

6.9 Get HTTPS Switch Status

Command Structure GET HTTPS	Parameters:
Response Structure HTTPS < ON OFF >	
Command Example GET HTTPS	
Response Example HTTPS ON	
Additional Notes:	

6.10 Configure Telnet over TLS

Command Structure SET TELNETS < ON OFF >	Parameters: ON = Enable Telnet over TLS
Response Structure TELNETS < ON OFF >	
Command Example SET TELNETS ON	
Response Example TELNETS ON	
Additional Notes: Default: OFF	

6.11 Get Telnet over TLS Feature Switch Status

Command Structure GET TELNETS	Parameters:
Response Structure TELNETS < ON OFF >	
Command Example GET TELNETS	
Response Example TELNETS ON	
Additional Notes:	

6.12 Set Wi-Fi Operating Mode

Set the Wi-Fi module's band and channel

Command Structure SET WIFI_MODE < WiFiBand > < WifiChannel AUTO >	Parameters: WiFiBand = 2 or 5, corresponding to the 2.4 GHz and 5 GHz bands respectively WifiChannel is the Wi-Fi channel; valid values depend on the band: 2.4 GHz band: 1 2 3 4 5 6 7 8 9 10 11 5 GHz band: 36 40 44 48 149 153 157 161 AUTO = device automatically selects an appropriate channel
Response Structure WIFI_MODE < WiFiBand > < WifiChannel > [AUTO]	
Command Example SET WIFI_MODE 5 AUTO	
Response Example WIFI_MODE 5 161 AUTO	
Additional Notes: Default: 5 AUTO That is, 5 GHz band with channel selected automatically	

6.13 Get Wi-Fi Operating Mode

Command Structure GET WIFI_MODE	Parameters:
Response Structure WIFI_MODE < WifiBand > < WifiChannel > [AUTO]	
Command Example GET WIFI_MODE	
Response Example WIFI_MODE 5 161 AUTO	
Additional Notes:	

6.14 Set Wi-Fi Password

Set the password for the built-in soft AP used for wireless screen casting.

Command Structure SET SOFTAP_PWD < WifiPassword >	Parameters: The parameter WiFiPassword must be 8–20 characters long and may contain only letters, numbers, and the two special characters '_' and '.'.
Response Structure SOFTAP_PWD < WifiPassword >	
Command Example SET SOFTAP_PWD 88888888	
Response Example SOFTAP_PWD 88888888	
Additional Notes: Default value: 12345678	

6.15 Get Wi-Fi Password

Retrieve the password for the built-in soft AP.

Command Structure GET SOFTAP_PWD	Parameters:
Response Structure SOFTAP_PWD < WifiPassword >	
Command Example GET SOFTAP_PWD	
Response Example SOFTAP_PWD 88888888	
Additional Notes:	

6.16 Set Soft AP Function

The built-in Soft AP can be enabled or disabled. This API controls that setting.

Command Structure SET SOFTAP_EN < ON OFF >	Parameters: ON = Enable Soft AP
Response Structure SOFTAP_EN < ON OFF >	
Command Example SET SOFTAP_EN OFF	
Response Example SOFTAP_EN OFF	
Additional Notes: Default: ON	

6.17 Get SoftAP Function Switch Status

Command Structure GET SOFTAP_EN	Parameters:
Response Structure SOFTAP_EN < ON OFF >	
Command Example GET SOFTAP_EN	
Response Example SOFTAP_EN OFF	
Additional Notes:	

6.18 Configure Soft AP Routing

The device supports soft routing, which allows devices connected to the soft AP to access network resources available on the device's wired Ethernet port. If that network has Internet access, devices on the soft AP can also access the Internet.

This API is used to control that feature.

Command Structure SET SOFTAP_ROUTER < ON OFF >	Parameters: ON = Enable soft AP routing
Response Structure SOFTAP_ROUTER < ON OFF >	
Command Example SET SOFTAP_ROUTER OFF	
Response Example SOFTAP_ROUTER OFF	
Additional Notes: Default: ON	

6.19 Get Soft Router Feature Switch Status

Command Structure GET SOFTAP_ROUTER	Parameters:
Response Structure SOFTAP_ROUTER < ON OFF >	
Command Example GET SOFTAP_ROUTER	
Response Example SOFTAP_ROUTER OFF	
Additional Notes:	

6.20 Set BYOD Function

The Miracast and AirPlay receiver functions can be enabled or disabled. This API is used to control those functions.

Command Structure SET BYOD_EN < ON OFF >	Parameters: ON = Enable the BYOD receiver function
Response Structure BYOD_EN < ON OFF >	
Command Example SET BYOD_EN OFF	
Response Example BYOD_EN OFF	
Additional Notes: Default: ON	

6.21 Get BYOD Feature

Command Structure GET BYOD_EN	Parameters:
Response Structure BYOD_EN < ON OFF >	
Command Example GET BYOD_EN	
Response Example BYOD_EN OFF	
Additional Notes:	

6.22 Set BYOD Access Code

When using Miracast or AirPlay for screen casting, you can require users to enter an access code to prevent interference.

This API controls that feature

Command Structure SET BYOD_ACCESS_CODE < AccessCode AUTO NONE >	Parameters: AccessCode = Access code, must be 4 digits AUTO = Automatically generate an access code that changes dynamically NONE = No access code
Response Structure BYOD_ACCESS_CODE < AccessCode AUTO NONE >	
Command Example SET BYOD_ACCESS_CODE 1234	
Response Example BYOD_ACCESS_CODE 1234	
Additional Notes: Default: NONE	

6.23 Get BYOD Access Code

Command Structure GET BYOD_ACCESS_CODE	Parameters: Optional parameter AUTO indicates the current access code is dynamically generated.
Response Structure BYOD_ACCESS_CODE NONE 或 BYOD_ACCESS_CODE < AccessCode > [AUTO]	
Command Example GET BYOD_ACCESS_CODE	
Response Example BYOD_ACCESS_CODE 1234 AUTO	
Additional Notes:	

6.24 Set SSID Broadcast

By default a soft AP periodically sends broadcast packets that include its SSID. Disabling this feature can improve security to some extent.

This API is used to control that feature.

Command Structure SET SSID_BROADCAST_FN < ON OFF >	Parameters: ON = Enable SSID broadcast
Response Structure SSID_BROADCAST_FN < ON OFF >	
Command Example SET SSID_BROADCAST_FN OFF	
Response Example SSID_BROADCAST_FN OFF	
Additional Notes: Default value: ON	

6.25 Get SSID Broadcast Switch Status

Command Structure GET SSID_BROADCAST_FN	Parameters:
Response Structure SSID_BROADCAST_FN < ON OFF >	
Command Example GET SSID_BROADCAST_FN	
Response Example SSID_BROADCAST_FN OFF	
Additional Notes:	

6.26 Set Preferred Resolution for Wireless Conference Video

When starting a wireless conference at 1080P, a high camera video bandwidth can cause video stuttering. This API sets the preferred resolution for wireless conference video.

Command Structure SET WCONF_PREFER_RES < 720P 1080P >	Parameters:
Response Structure WCONF_PREFER_RES < 720P 1080P >	
Command Example SET WCONF_PREFER_RES 1080P	
Response Example WCONF_PREFER_RES 1080P	
Additional Notes: Default: 720P	

6.27 Get Preferred Resolution for Wireless Conference Video

Command Structure GET WCONF_PREFER_RES	Parameters:
Response Structure WCONF_PREFER_RES < 720P 1080P >	
Command Example GET WCONF_PREFER_RES	
Response Example WCONF_PREFER_RES 1080P	
Additional Notes:	

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