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HT-CALIPSO

All-in-one meeting collaboration bar.

API Command List

Version: 1.0

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# Connecting to the HT-CALIPSO

IP ADDRESS

To connect to and communicate with the HT-CALIPSO, the controlling device needs to be on the same network. If needed, change the IP address on your PC to be in the same IP range and same subnet as the HT-CALIPSO. You can find out the IP address of the HT- CALIPSO by looking in the bottom right corner of the Guide Screen (you will need to connect the HT- CALIPSO to a display).

ENABLING TELNET CLIENT

Before logging in to IP controller via command-line interface, make sure that Telnet Client is enabled. By default, Telnet Client is disabled in Windows OS. To turn on Telnet Client, do as follows.

1. Choose **Start > Control Panel > Programs**
2. In the **Programs and Features** area, click **Turn Windows features on or off**.
3. In the **Windows Features** window, select **Telnet Client** check box.
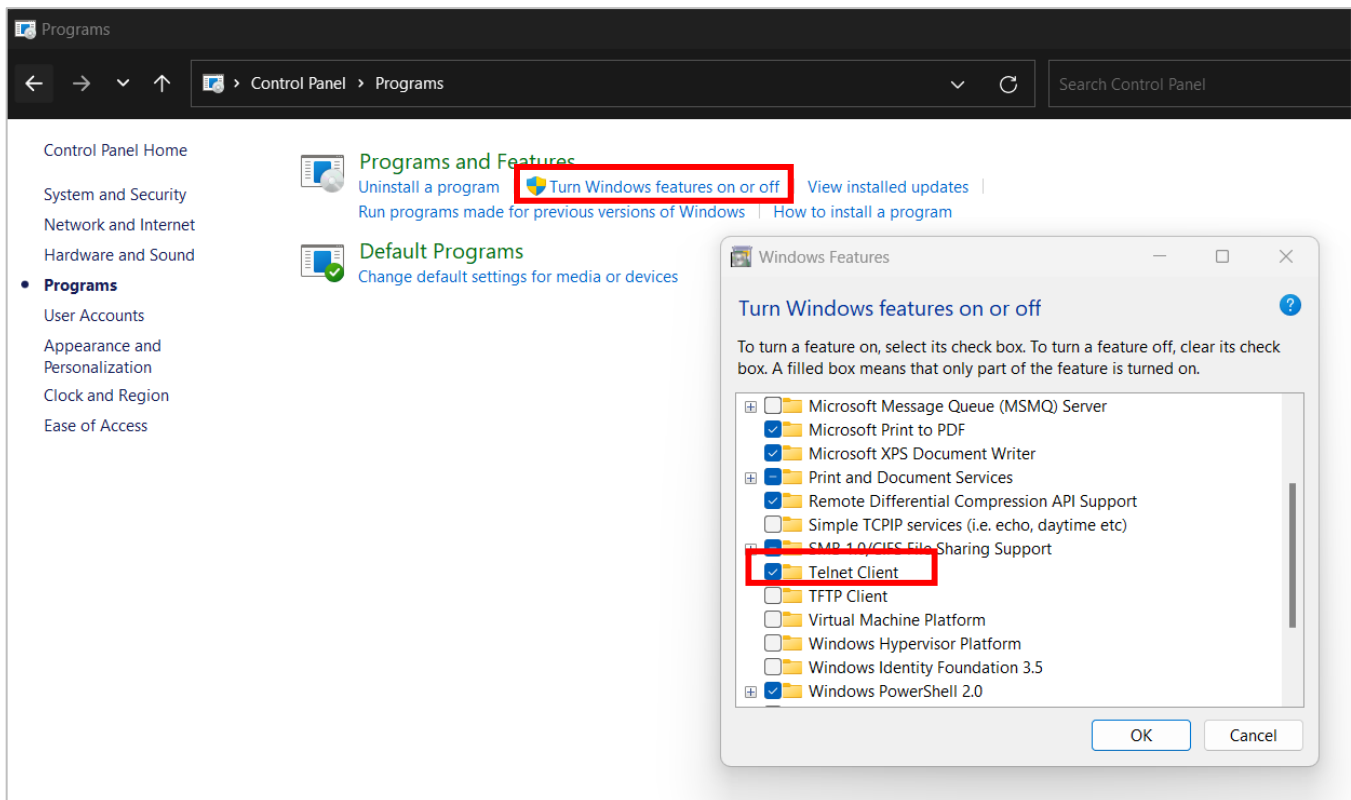
LOGGING IN VIA COMMAND-LINE INTERFACE

1. Choose **Start > Run**
2. In the Run dialog box, enter **cmd** and then click **OK**.
3. Enter **telnet 192.168.0.109 23** if the device's IP address is 192.168.0.109 and then press **Enter**. (The 23 on the end changes the port communication to 23).

```
E:\Users\Hornet>telnet 192.168.0.109 24
```

4. The device will display a **#** as the command prompt. The device is now ready to execute the API commands.

```
username : admin
password :
Welcome to HT-CALIPSO.
~ # |
```

Terminology & API Commands Overview

TERMINOLOGY

The terminology used in the API command's description is listed as follows:

- **Device:** the unit being controlled
- **AirPlay Mirroring:** A screen mirroring approach developed by Apple and is supported by many Apple devices such as MacBooks, iPads, and iPhones.
- **Miracast:** A screen mirroring approach developed by Wi-Fi alliance and is supported by all Android devices and Windows PCs.
- **BYOD Source:** AirPlay and Miracast are BYOD solutions.
- **Hardware Source:** The physical hardware interface on the device, such as HDMI or USB Type-C.
- **Software Source:** Certain devices can display video content from a USB camera.

API COMMANDS OVERVIEW

API commands are mainly classified into the following types.

- gbconfig: manages the configurations of the device
- gbcontrol: controls the device
- gblayout: adjusts the features related to the screen layout
- Event: message from the device to report that the device's state changed

Command syntax uses the command type followed by a space, two dashes, and then the command plus the argument (as needed). For example:

gbconfig --camera-mode normal

Type	space	dash dash	Command	space	Argument
gbconfig		--	camera-mode		normal

This example changes the device's configuration to be "normal" for the mode of the camera.

Note: For the "show" command there is only a single dash: gbconfig -s camera-mode

API Commands

GBCONFIG COMMANDS

Command	Argument(s)	Description
gbconfig --help		Displays a list of all available gbconfig commands.
gbconfig --cascade-mic-num	*{1 ~ 7}*	Sets the number of cascaded expansion HT-Satellite-EXT microphones.
gbconfig --get-cascade-mic-online-num		Displays the total number of cascaded HT-Satellite-EXT microphones connected to the HT-CALIPSO.
gbconfig --camera-mode	*{normal	autoframing	speakertracking	presentertracking}*	Changes the camera's tracking mode. **Normal:** User's adjust the pan, tilt, zoom manually. **Auto Framing:** The camera automatically tracks the people based on face recognition. **Speaker Tracking:** The camera automatically tracks the speaker based on speech recognition. **Presenter Tracking:** The camera tracks a single presenter.
gbconfig -s camera-mode		Displays the camera's tracking mode setting.
gbconfig --camera-zoom	*{100 ~ phymaxzoom}*	Set the camera's zoom. The available values range from 100% (1x) to the camera's max physical zoom.
gbconfig -s camera-zoom		Displays the camera's zoom setting.
gbconfig --camera-savecoord	*{1	2}*	Saves current coordinates to a specified preset for easy recall. (Preset 1 or Preset 2)
gbconfig -s camera-savecoord	*{1	2}*	Displays if the current coordinates of the camera are saved to a certain preset. (Returns "true" or "false")
gbconfig --camera-loadcoord	*{1	2}*	Recalls Preset 1 or Preset 2.
gbconfig --camera-mirror	*{y	n}*	Turns on (y) or off (n) the camera mirroring function.
gbconfig -s camera-mirror		Displays the camera's setting for mirroring mode.
gbconfig --camera-powerfreq	*{50	60}*	Sets the refresh frequency to prevent flicker in the video (50Hz, 60Hz)
gbconfig -s camera-powerfreq		Displays the refresh frequency setting.
bconfig --camera-geteptz		Displays detailed information about the ePTZ camera.
gbconfig --hdcp-enable hdmi	*{n	auto	hdcp14	hdcp22}*	Configures the HDCP capability for the HDMI output. **N:** turns off HDCP **Auto:** HDCP will be turned on/off automatically **HDCP14:** Sets HDCP to 1.4

		HDCP22: Sets HDCP to 2.2
gbconfig -s hdcp-enable		Displays the status of the HDCP for HDMI output.
gbconfig --cec-enable	{y | n}	Turns on (y) or off (n) CEC mode.
gbconfig -s cec-enable		Displays the status of CEC mode.
gbconfig --sinkpower	{on | off}	Turns on/off the ability to send a CEC command to the display to turn it on/off.
gbconfig --cec-cmd hdmi	{on | off} {CmdStr}	Enters the command string to turn on/off the connected display. CmdStr: The CEC command in string or hex format. For example, the command to turn on the display could be "40 04": CmdStr = 4004
gbconfig -s cec-cmd		Displays the command set for the on/off command.
gbconfig --send-cmd hdmi	{CmdStr}	Tests CEC commands to turn displays on/off. This is only for testing and is not stored to the device.
gbconfig --mic-mute	{y | n}	Sets all microphones, including cascaded microphones, to mute on (y) or off (n).
gbconfig -s mic-mute	{y | n}	Displays the status of the microphone mute state.
gbconfig --autovolume	{inc | dec}	Increases or decreases the volume. Each increase/decrease is 2 level steps.
gbconfig --aec	{y | n}	Enables (y) or disables (n) AEC (Acoustic Echo Cancellation) on the microphones.
gbconfig -s aec		Displays the AEC state.
gbconfig --anc	{y | n}	Enables (y) or disables (n) ANC (Active Noise Cancellation) on the microphones.
gbconfig -s anc		Displays the ANC state.
gbconfig --agc	{y | n}	Enables (y) or disables (n) AGC (Automatic Gain Control) on the microphones.
gbconfig -s agc		Displays the AGC state.

GBCONTROL COMMANDS

Command	Argument(s)	Description
gbcontrol --help		Displays a list of all available gbcontrol commands.
gbconfig --reboot		Reboots the device.
gbcontrol --reset-to-default		Restores the device to the factory defaults.
gbcontrol --reset-web-passwd		Resets the UI password to the factory default (**admin**).
gbcontrol --video-source	*{VideoName} {WinNo}*	Displays the selected video source to the desired window.
gbcontrol --audio-source	*{VideoName}*	Selects the desired audio source.
gbcontrol --stop-video	*{VideoName}*	Stops displaying the desired video source.
gbcontrol --show-osd		Displays the OSD for ten seconds.
gbcontrol --device-info		Displays information about the device.

GBLAYOUT COMMANDS

Command	Argument(s)	Description
gblayout --help		Displays a list of all available gblayout commands.
gblayout --start-video	*{VideoName}*	Starts the designated video and returns a list of the video sources being displayed. • If the video source is displayed already, the device does nothing. • If there is no free window, the device switches to a screen layout which has more windows • If there is no free window nor screen layout having more windows, the device stops playing the "oldest" video source. **Note:** If the device is disabled to change the screen layout automatically, this command will not work. Refer to the **gblayout --auto** command.
gblayout --stop-video	*{VideoName} {WinNo}*	Stops the designated video.
gblayout –-show	*{LayoutNo}*	Displays the detail of a screen layout.
gblayout --set	*{LayoutNo}*	Sets the current screen layout to the desired number.
gblayout --get	*detail*	Displays information related to the current screen layout. Adding *detail* to the command provides the position and size of every window and the video source displayed in the window.

gblayout --set-sequence	*{Layout1No}* *{Layout2No}*	Designates the screen layout sequence (either full or dual view)
gblayout --get-sequence		Displays the numbers of all layouts in the sequence.
gblayout --auto	*{y	n} {runtimeonly}*	Enables (y) or disables (n) automatic screen layout. Adding runtimeonly to the command temporarily sets the change until device reboot or standby mode.
gblayout --list		Displays all screen layouts in the device.

EVENTS

Events are not API commands that can be sent by the controller. These are messages sent by the device to announce that a certain state of the device has change.

Command	Description
[Event] VideoSource VideoName	This message means that the state of one video source has changed.
[Event] WorkMode	This message means that the device's work mode has changed.
[Event] Layout	This message means that the screen layout has changed and includes the layout ID and its name.

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