Avitech HTTP Commands

Sequoia 4K60/4K60L



ABOUT THIS REFERENCE GUIDE

This reference guide contains information on using the Avitech Hyper Text Transfer Protocol (HTTP) on the Sequoia 4K60/4K60L.

The following conventions are used to emphasize elements of text throughout this reference guide.



Provides additional hints or information that requires special attention.

Identifies warnings that must be strictly followed.

Any name of a menu, command, icon or button on the screen is shown in a bold typeset. For example: On the **Start** menu select **Settings**.

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This product complies with Australia and New Zealand's standards for radio interference.



1. HTTP Command

The Sequoia 4K60/4K60L hosts the HTTP command prompt interface through its Ethernet (IP) port.

- The factory-default network settings are as follows:
 - ✓ IP address = **192.168.0.5**
 - ✓ Network mask = 255.255.255.0
 - ✓ Gateway = 192.168.0.254
- TCP port number is fixed at 20036
- UDP port number is fixed at 20037

This chapter contains information on using the Avitech HTTP command on the Sequoia 4K60/4K60L.

1.1 HTTP Command Format

The HTTP command is comprised of the following segments:

| Header | HTTP command | Command and value 1 | Command and value 2 | Command and value 3 |
|--------|-----------------|---------------------|---------------------|---------------------|
|--------|-----------------|---------------------|---------------------|---------------------|

Figure 1.1.1 Segments of the HTTP Command

The following is a list of directions to follow when entering HTTP commands:

- Header = http://IP/cgi-bin/, where IP refers to the IP address assigned to the Sequoia 4K60/4K60L.
- HTTP command = command.cgi?, where command can be any HTTP command supported by the Sequoia 4K60/4K60L (the HTTP command is case-sensitive).
- Cmd and value (Cmd-Value) = for the advanced setting of each HTTP command (Cmd-Value should only contain lowercase characters and multiple cmd-values should be separated by the symbol "&").

A complete HTTP command format is shown below:

http://IP/cgi-bin/command.cgi?cmd=value1&value2&value3

When use TCP/UDP packet transmission, a complete TCP/UDP command format is shown below:

cmd=value1&value2&value3

1.2 Using the Private Browsing Mode

It is recommended that a web browser's "private" browsing mode (i.e. incognito window of Chrome) be used to send HTTP commands. Using the web browser's "regular" browsing mode will cache the HTTP commands. This is equivalent to actions done by the web browser when visiting websites, and may not actually send commands to the Sequoia 4K60/4K60L. Using the private browsing mode will solve this problem. The following shows you how to use the HTTP command on Google Chrome:

Step 1. Launch Google Chrome on your computer.

Step 2. Click the Customize and control Google Chrome icon on Google Chrome's top-right position.



Step 3. Select a New incognito window to open an incognito window (private browsing mode).

| | Q | Ø | ☆ | : |
|------------|----------|------|-------|---------|
| New tab | | | | Ctrl+T |
| New windo | w | | | Ctrl+N |
| New Incog | nito wir | ndow | Ctrl+ | Shift+N |
| History | | | | ► |
| Downloads | ; | | | Ctrl+J |
| Bookmarks | | | | • |
| Zoom | - | 80% | 6 + | 53 |
| Print | | | | Ctrl+P |
| Cast | | | | |
| Find | | | | Ctrl+F |
| More tools | | | | ► |
| Edit | Cut | | Сору | Paste |
| Settings | | | | |
| Help | | | | • |
| Exit | | | | |

Figure 1.2.1 Google Chrome Menu: New Incognito Window

A new incognito window is opened (an incognito window can also be opened by using keyboard "Ctrl + Shift + N" hotkey instead of performing steps 2 and 3).



Figure 1.2.2 Incognito Window of Google Chrome



Step 4. Type the **IP** address assigned to the Sequoia 4K60/4K60L, the **HTTP command**, and the associated **Cmd-Value**s in the address bar.

<u>Example:</u> To reset your Sequoia 4K60/4K60L's settings to its factory-default state = http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type":"default"}



Figure 1.2.3 HTTP Command in the Address Bar

Step 5. Press Enter (,...) on your keyboard to send the HTTP command to the Sequoia 4K60/4K60L. The message "Success" will appear to indicate a successful transmission of HTTP command.



Figure 1.2.4 HTTP Command Sent and Corresponding Result (Success)

If the format of the HTTP command is invalid, the error message "Wrong format" will appear:

| • | S 1 | 192.168.0 | 0.5/cgi-bin/comma | nd. x + | - | | × |
|------|------------|-----------|-------------------|--|----|-----------|---|
| ÷ | | G | ▲ Not secure | 192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type":"osd","port":6,"en":0} 🖈 🛛 🔲 | 48 | Incognito | |
| Wror | ng Fo | ormat | | | | | |

Figure 1.2.5 HTTP Command Format Error Message

If the information you are trying to obtain is non-existent (no data), the error message "null" or "{ }" will appear:



Figure 1.2.6 HTTP Command Format No Data Error Message



1.3 HTTP Command Summary

The following are the lists of HTTP commands supported by Sequoia 4K60/4K60L:

1.3.1 Commands for Controlling System

| Firmware Version – Get | | | | | |
|---------------------------|-----------------------|---|-------|--------------------------|--------------------------|
| | Display t | he Sequoia 4K60/4K60L v | ariou | s component's firmware v | version. |
| | <u>Referenc</u> | ce: resolution code corres <u>p</u> | ondir | n <u>g table</u> | |
| | Mode | Resolution | Mode | Resolution | 8 |
| | 0 | auto detect (obtain EDID from the connected display) | 181 | 1920×1200 60Hz | |
| | 107 | 4096×2160 60Hz | 209 | 1920×1200 50Hz | |
| Function | 106 | 4096×2160 50Hz | 74 | 1920×1080 60Hz | |
| Function | 199 | 3840×2400 60Hz | 70 | 1920×1080 50Hz | |
| | 200 | 3840×2400 50Hz | 143 | 1280×1024 60Hz | |
| | 99 | 3840×2160 60Hz | 205 | 1280×1024 50Hz | |
| | 98 | 3840×2160 50Hz | | | |
| | 96 | 3840×2160 30Hz | | | |
| | 95 | 3840×2160 25Hz | | | |
| Cmd-Value Format | None | | | | |
| Example | http://19 device"} | 2.168.0.5/cgi-bin/comma | nd.co | ji?cmd=Info¶m={"f | unc":"get","type":" |
| | Obtain a | nd display the Sequoia 4K | 60/4k | 60L's MCU / Scaler / We | b / KM firmware version. |
| Sample Response | See the | below screenshot. | | | |

 Table 1.3.1.1 Get Sequoia's Firmware Version Command

| ✓ ⑤ 192.168.0.5/cgi-bin/command. × + | | - | | × |
|---|--|--|-----------------------------|--------|
| ← → C 🛆 Not secure 192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m=("func":"get","type":"device") | | 🚓 Inco | ognito | |
| ["machine_name":"Sequoia4K60","machine_type":"Sequoia4K60.v1","usage_time":0,"cb_firmware":"23:12:21:3","web_version":"24.01.02.104.01","fwrmel" 2022","mac_addr1":"00:23:21:00:1E:A0","sob_firmware":"2023:12:25:1","sob_alive":1,"temp1":"45","resolution":[0,0,0,0,0],"remote_ent":[1,0,0,0,0],"osd_ent" 12.08.2023","km_usb":"0.2.3.2020:1-202","scaler_vert":"24.12.10","scaler_alive":1,"mediator_vert":"23.12.15.01","audio":[0,0,0,0],"sib_hdcp":[1,1,1,1],"fr [0],"sob_alarn":"0,"wall_lock_status:"0,"avah_in","in":"160.40","udop_nort":20037,"force_source_color":[0,0,0,0,],"custom_edid":"["0x0p","0x0p | ':"Fri Apr ; ':[0,0,0,0,0 ading_tim .0p"],"auto | 29 16:42: 0],"km_n e": p_remote | :28 CST ncu":"V0. e": | .00.01 |

Figure 1.3.1.1 Response of Getting Firmware Information Command

| Signal Type – Get | |
|---------------------|--|
| Function | Display the signal type of the four windows to determine if video signal is being fed into it. <u>Reference</u> : signal: 0 (video absent) / 1 (video feed). |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"get","type": "signal"} Obtain and display the four window's signal type and status. |
| Sample Response | See the below screenshot. |

Table 1.3.1.2 Get Four Windows' Signal Type Command

| ▼ S 192.168.0.5/cgi-bin/command × + | | | — | | × |
|--|----------------------|----------------------------|------------------------|----------------------------|------------|
| ← → C (▲ Not secure 192.168.0.5/cgi-bin/command.cgi?cmd=lnfo¶m=("func":"get","type":"signal") | ☆ | | ⇔ Inc | cognito | |
| [["input":1,"signal":3,"clock":5332,"total":[4000,2222],"active":[3840,2160],"start":[59,59],"freq":6000),["input":2,"signal":3,"clock":2967,"total":[44 [82,82],"freq":2997],["input":3,"signal":3,"clock":5327,"total":[4000,2222],"active":[3840,2160],"start":[59,59],"freq":5994],["input":4,"signal":5,"clock":2967,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":2967,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":2967,"total":[4000,2222],"active":[3840,2160],"start":[59,59],"freq":5994],["input":4,"signal":5,"clock":2967,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":2967,"total":[4000,2222],"active":[3840,2160],"start":[59,59],"freq":5994],["input":4,"signal":5,"clock":597,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":597,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":597,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock":597,"total":[41,41],"freq":5994],["input":4,"signal":5,"clock | 100,2250 ock":148 | 0],"active' 85,"total": | :[3840,23 [2200,113 | 160],"start 25],"active | t": e": |





| Network – Get | |
|---------------------|--|
| Function | Display the IP address, Mac address and machine name of Sequoia 4K60/4K60L in the same network. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"get","type": "machinelist"} |
| Example | Obtain and display the Sequoia 4K60/4K60L's IP address / Mac address / Machine name in the same network. |
| Sample Response | See the below screenshot. |

Table 1.3.1.3 Get Sequoia's Network Setting Command

| ✓ S 192.1 | 68.0.5/cgi-bin/command. × + | - 🗆 | × |
|-----------------------------|---|-------------|---|
| $\leftarrow \rightarrow c$ | 🖌 Not secure 192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"get","type":"machinelist"} 🖈 🔲 | 🚓 Incognito | |
| [{ | "IP": "192.168.0.197", "MAC": "00:23:21:00:1E:6A", "MACHINE": "Sequoia4K60", | | |
| }.{ | "NAME": "Sequoia4K60", "AVAHI_IP": "169.254.4.188" | | |
| <i>"</i> | "IP": "192.168.0.6", "MAC": "00;23:21:00:1E: <u>AE</u> ", "MACHINE": "Sequoia4K60", "NAME": "Sequoia4K60", "AVAHI_IP": "160:254.6.84" | | |
| }, { | "IP": "192.168.0.5", "MAC": "00:23:21:00:1E:A0", "MACHINE": "Sequoia4K60", "NAME": "Sequoia4K60", "AVAHI_IP": "169.254.6.0" | | |

Figure 1.3.1.3 Response of Get Network Setting Command

| Output Resolution – Set | | | | | |
|----------------------------|------------------------------|---|---------------------------------|--|----|
| Function | Set the | e Sequoia 4K60/4K60L displ | ay's fra | me rate and resolution. | |
| | port = | 1/2/3/4/5 (port 5 is only ava | ilable fo | or Sequoia 4K60) | |
| | mode | = 0/107/106/199/200/99/98/ | 96/95/ 1 | 81/209/74/70/143/205 | |
| | Mode | Resolution | Mode | Resolution | |
| | 0 | auto detect (obtain EDID from the connected display) | 181 | 1920×1200 60Hz | |
| | 107 | 4096×2160 60Hz | 209 | 1920×1200 50Hz | |
| | 106 | 4096×2160 50Hz | 74 | 1920×1080 60Hz | |
| Format | 199 | 3840×2400 60Hz | 70 | 1920×1080 50Hz | |
| | 200 | 3840×2400 50Hz | 143 | 1280×1024 60Hz | |
| | 99 | 3840×2160 60Hz | 205 | 1280×1024 50Hz | |
| | 98 | 3840×2160 50Hz | | | |
| | 96 | 3840×2160 30Hz | | | |
| | 95 | 3840×2160 25Hz | | | |
| Example | http:// "resol Set the | 192.168.0.5/cgi-bin/comma ution","port":1,"mode":99 HDMI OUT 1 monitor's frar | i nd.cgi } ne rate | <pre>?cmd=2060&param={"func":"set","type and output resolution at 3840×2160 60Hz</pre> | ": |
| Response | "Succe "Wron | ess″ – this indicates a succe g format″ – this indicates a | essful ti failure | ansmission of HTTP command. of HTTP command. | |

Table 1.3.1.4 Set the Monitor's Frame Rate and Output Resolution Command



| Default Preset – Load | |
|--------------------------|---|
| Function | Set the Sequoia 4K60/4K60L display to conform to one of the default layouts. |
| Cmd-Value Format | default_layout = 1/2/3 1(⊞): quad layout 2(⊞): 3 (smaller windows) + 1 (large) layout 3(⊡): 1 (large) + 3 (smaller windows) layout response = 0(ignore response) / 1(response) |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type": "default","port":1,"data":{"default_layout":1}} Set the current display to a quad default layout. |
| Response | See the below screenshot. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type": "default","port":1,"data":{"default_layout":1},"response":1} Set the current display to a quad default layout. |
| Response | See the below screenshot. |
| Example 3 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type": "default","port":1,"data":{"default_layout":2},"response":0} Set the current display to the 3 smaller windows + one large window default layout without response. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.5 Set the Monitor to Display the Default Layout Command



Figure 1.3.1.4 Response of Load Factory Default Preset



| User Icon Preset – Load | |
|----------------------------|---|
| Function | Load one of the five preconfigured user icon presets. |
| | preset_unm = 1/2/3/4/5 |
| | 1: user icon preset number one |
| Cmd Value | 2: user icon preset number two(2: |
| Format | 3: user icon preset number three(💷) |
| | 4: user icon preset number four(📼) |
| | 5: user icon preset number five(🛋) |
| | response = 0(ignore response) or 1(response) |
| | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"preset","port":1,"data":{"preset_num":3}} |
| | Load the number "3" user icon preset. (Corresponds to the \mathbf{IS} icon shown in Web GUI \rightarrow Layout & Routing \rightarrow Multiview Layout.) |
| Response | See the below screenshot. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"preset","port":1,"data":{"preset_num":3},"response":1} |
| | Load the number "3" user icon preset. (Corresponds to the \mathbf{IS} icon shown in Web GUI \rightarrow Layout & Routing \rightarrow Multiview Layout.) |
| Response | See the below screenshot. |
| Example 3 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"preset","port":1,"data":{"preset_num":2},"response":0} |
| | Load the number "2" user icon preset without response. (Corresponds to the \mathbf{E} icon shown in Web GUI \rightarrow Layout & Routing \rightarrow Multiview Layout.) |
| Posnonso | "Success" – this indicates a successful transmission of HTTP command. |
| kesponse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.6 Load a User Icon Preset Command



Figure 1.3.1.5 Response of Load a User Icon Preset Command



| Custom Preset – Load | |
|-------------------------|---|
| Function | Load a designated custom preset. |
| Cmd-Value Format | <pre>name = "custom preset filename" (acceptable character set that can be used in the naming of preset file includes the following (special characters are not allowed): "A"~ "Z"; "a"~"z"; "0"~"9"; "."(period); "-"(dash); "_"(underline))</pre> |
| | response = 0(ignore response) or 1(response) |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"custom_preset","port":1,"name":"multiview-1"} |
| - | Load the custom preset filename "multiview-1". |
| Response | See the below screenshot. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"custom_preset","port":1,"name":"multiview-1","response":1} |
| - | Load the custom preset filename "multiview-1". |
| Response | See the below screenshot. |
| Example 3 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type" :"custom_preset","port":1,"name":"multiview-3","response":0} |
| | Load the custom preset filename "multiview-3" without response. |
| Response | "Success" – this indicates a successful transmission of HTTP command. |
| iveshouse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.7 Load the Custom Preset Filename Command



| Figure 1.3.1.6 Response of Load | Custom Preset Filename Command |
|---------------------------------|--------------------------------|
|---------------------------------|--------------------------------|

| Custom Preset File List – Get | |
|----------------------------------|---|
| Function | Display a list of all previously saved custom preset files. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"list","type": "custom_preset","port":1} |
| | Obtain and display all previously saved user custom preset files. |
| Sample Response | See the below screenshot. |

Table 1.3.1.8 Display a List of Custom Preset File(s) Command



Figure 1.3.1.7 Response of List Custom Preset Filename Command



| Custom Preset – Delete | |
|---------------------------|--|
| Function | Delete a custom preset file. Please be careful to type the filename correctly. |
| Cmd-Value Format | name = "custom preset filename" (acceptable character set that can be used in the naming of preset file includes the following (special characters are not allowed): "A"~"Z"; "a"~"z"; "0"~"9"; "."(period); "-"(dash); "_"(underline)) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"del","type": "custom_preset","port":1,"name":"multiview-2"} Delete the previously saved display configuration preset with filename "multiview-2". |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.9 Delete a Previously Saved Custom Preset Filename Command

| Latest Display Preset – Load | |
|---------------------------------|---|
| Function | Load the window layout with its corresponding setting that was last saved using Save Latest (previous command). This layout will also be the master layout which gets loaded when your Sequoia 4K60/4K60L is powered on. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"load","type": "preset","port":1,"data":{"preset_num":15}} |
| | Load the window layout with its corresponding setting that was last saved using Save Latest. |
| Response | See the below screenshot. |

Table 1.3.1.10 Load the Saved Latest Display Configuration Command

| ✓ S 192.168.0.5/cgi-bin/command. × + | | | × |
|---|-------------------------|---------|---|
| ← → C ▲ Not secure 192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func": ☆ □ | 🔒 Inc | ognito | |
| {"port":1,"win":[{"id":1,"data":[0,360,2560,1440,0,1,1,1],"win_crop":[0,0,10000,10000]},{"id":2,"data":[2560,0,1280,720,1,1,1,1],"wi [0,0,10000,10000]},{"id":3,"data":[2560,720,1280,720,2,1,1,1],"win_crop":[0,0,10000,10000]},{"id":4,"data":[2560,1440,1280,720,3, [0,0,10000,10000]],"resolution":[3840,2160],"global_option":[0,0,0,0,0],"default_layout":0,"preset":0} | n_crop": 1,1,1],"win | _crop": | |

Figure 1.3.1.8 Response of Load Latest Display Configuration Command

| Reset Factory Defaults | |
|---------------------------|--|
| Function | Reset your Sequoia 4K60/4K60L's settings to its factory-default state. Upon resetting your Sequoia 4K60/4K60L to its factory-default state, your previously saved presets stored in the Sequoia 4K60/4K60L's flash memory will be automatically removed; make sure to have your files saved externally before resetting the Sequoia 4K60/4K60L to the factory-default state. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type":" default"} Reset the Sequoia 4K60/4K60L's to its factory-default state. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

 Table 1.3.1.11 Reset Sequoia Settings to Factory-default State Command



Fading Level (Speed) – Set

| Function | Allows setting the fading level (speed) when switching source in fullscreen mode. <u>Note:</u> This option is only applicable for fullscreen window switching source. |
|-----------|---|
| Cmd-Value | fading_time = 0 – 255 |
| Format | 0(off, no seamless transition) or 1(fastest up) to 255(slowest) |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "fading","fading_time":255} |
| | Set the fading speed to lowest when switching source. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "fading","fading_time":0} |
| | Turn off fading (no seamless transition). |
| Response | "Success" – this indicates a successful transmission of HTTP command. |
| | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.12 Set the Fading Speed Command

| K/M Control – Set (Randomly switch KM control) | |
|---|--|
| Function | Allows randomly switching the K/M (keyboard/mouse) control in <u>Remote</u> or <u>Host</u> mode. ♦ Sequoia 4K60L is in Quad Multiview + Bypass (Daisy Chain Capable) mode. ♦ Sequoia 4K60 is in Quad Multiview + Workstation mode. |
| Cmd-Value Format | <pre>winid = 0(Host mode) / 1(Window 1's <u>Remote</u> mode) / 2(Window 2's <u>Remote</u> mode) / 3(Window 3's <u>Remote</u> mode) / 4(Window 4's <u>Remote</u> mode)</pre> |
| Example | 192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type": "enter_remote","port":1,"winid":4} |
| | Allows keyboard/mouse control switching to Window 4's <u>Remote</u> mode, means keyboard/mouse can directly control the designated remote PC. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.13 Switch K/M Control Command

| OSD Information – Get | |
|--------------------------|--|
| Function | Obtain and display all OSD's information. The OSD contains label/border/audio tally. |
| Cmd-Value Format | None |
| | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"get","type": "osd","port":1} |
| Example | Obtain and display the information included tally on/off status, the color of Tally1, label on/off status, label font/background color, auto-hide label status, and border color and border width. |
| Response | See the below screenshot. |

Table 1.3.1.14 Get System OSD Information Command

| ~ | 3 | 192.168.0 | 0.5/cgi-bin/comma | and.c × | + | | | | | | — | | × |
|--|---|--|--|---|---|--|---|---|-------------------------------------|----------------------------|------------------|---------|---|
| ÷ | | G | ▲ Not secure | 192.168.0 | 0.5/cgi-bin/con | nmand.cgi?cr | nd=2060¶r | m={"func": | ☆ | | 🖶 Inc | cognito | |
| {"sho [86,2 [229 [50,5 [50,5 | ow_tally 08,61,2 ,229,229 60,50,25 60,50,25 | 1":1,"sho 55],"tally 9,255],"la 5],"popu 5],"activ | ow_tally2":1,"shov y2_off_color":[226 abel_back_color":[upmenu_available_ re_border":1,"label | v_tally3":1," ,34,38,255], 38,38,44,25 _color":[50,5 _text_trans | tally1_on_color": "show_label":1," 5],"border_color" 50,50,255],"popu parency":0,"label | :[86,208,61,255 auto_hide_labe ":[77,81,89,255 pmenu_disable I_overlay":0} |],"tally1_off_color' !l":0,"border_width],"tally3_off_color" _color": | ":[226,34,38,2 1":2,"label_fon ':[0,0,0,0],"pop | 55],"tally it_color": oupmenu | /2_on_co : ı_active_ | lor": color": | | |





| OSD Show/Hide – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows simultaneously.) |
|---|---|
| Function | Set the OSD show / hide in Sequoia 4K60/4K60L. The OSD contains label/border/audio tally. |
| Cmd-Value Format | <pre>port = 1 / 3(port 3 is only available for Sequoia 4K60 in Dual Independent Quad Multiview + Bypass mode) enable = 0(hide) or 1(show)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "osd","port":1,"en":0} Set all of the OSD to off status for Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.15 Set System OSD Show/Hide Command

| OSD – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows simultaneously.) | | | | |
|--------------------------------------|--|--|--|--|--|
| Function | Set the OSD in Sequoia 4K60/4K60L. <u>Note</u>: 1. Tally 1 (HDMI embedded audio switch) works for ◆ The first output of Sequoia 4K60/4K60L. ◆ The first and 3rd outputs in Dual Independent Quad Multiview + Bypass mode of Sequoia 4K60. 2. Auto hide label works in tandem with the Show Label on. | | | | |
| Cmd-Value Format | <pre>show_tally1 (HDMI embedded audio switch) = 0(hide) or 1(show) tally1_on_color = R(0-255),G(0-255),B(0-255),255(fixed) tally1_off_color = R(0-255),G(0-255),B(0-255),255(fixed) show_label = 0(hide) or 1(show) auto_hide_label = 0(label always show) or 1(label auto hide) label_font_color = R(0-255),G(0-255),B(0-255),transparency level(0-255) label_back_color = R(0-255),G(0-255),B(0-255),transparency level(0-255) label_overlay = 0(outside) or 1(overlay) label_text_transparency = 0(transparent along with label background),1(non) border_width = 0(hide border) or 2(show border width in 2 pixel) or 4(show border width in</pre> | | | | |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type":" osd","data":{"show_tally1":1,"tally1_on_color":[253,255,1,255],"tally1_off_color" :[225,0,254,255]}} Set the "Tally1" (HDMI audio switch) on and off color for Sequoia 4K60/4K60L. | | | | |
| Example 2 | http://192.168.0.185/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type ":"osd","data":{"label_overlay":1,"border_width":4}} Set the label overlay on image and border width change to 4 pixels for Sequoia 4K60/4K60L. | | | | |
| Example 3 | http://192.168.0.185/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"label_font_color":[29,29,29,185],"label_back_color":[71,245,249,100],"label_overlay":1}} Set the label background color RGB value = 71/245/249 and transparency level = 100; font color RGB value = 29/29/29 and transparency level = 185 and label overlay on image for Sequoia 4K60/4K60L. | | | | |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. | | | | |

Table 1.3.1.16 Set System OSD Command



| Window Border – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows simultaneously.) | | | | |
|---|--|--|--|--|--|
| Function | Set the window border's width, border color. | | | | |
| Cmd-Value | border_width = 0(border off) or 2(2 pixels) or 4(4 pixels) or 6(6 pixels) | | | | |
| Format | border_color = R(0-255),G(0-255),B(0-255),255(fixed) | | | | |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"border_width":6}} | | | | |
| - | Set the border width of the four windows of Sequoia 4K60/4K60L in 6 pixels. | | | | |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"border_width":2,"border_color":[177,181,249,255]}} | | | | |
| Example 2 | Set the border width in 2 pixels and border color RGB value = 177/181/249 of the four windows of Sequoia 4K60/4K60L. | | | | |
| Posponso | "Success" – this indicates a successful transmission of HTTP command. | | | | |
| Response | "Wrong format" – this indicates a failure of HTTP command. | | | | |

Table 1.3.1.17 Set Window's Border-related Properties Command

| Window Label Color – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows simultaneously.) | | | | |
|---|--|--|--|--|--|
| Function | Set the label's font and background color for all windows of Sequoia 4K60/4K60L. | | | | |
| | label_font_color = R(0-255),G(0-255),B(0-255),transparency level(0-255) | | | | |
| Cmd-Value Format | label_back_color = R(0-255),G(0-255),B(0-255),transparency level(0-255) | | | | |
| ronnat | label_overlay = 0(outside) or 1(overlay) | | | | |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"label_font_color":[162,243,183,255],"label_back_color":[138,200, 160,255]}} Set the label of the four windows' font color RGB value = 162,243,183 and background color | | | | |
| | RGB value = 138,200,160 for Sequola 4K60/4K60L. | | | | |
| Example 2 | ":"osd","data":{"label_font_color":[86,208,61,155],"label_back_color":[138,200 ,160,70],"label_overlay":1}} | | | | |
| | Set the label of the four windows' font color RGB value = 86,208,61 and transparency level = 155; the background color RGB value = 138,200,160 and transparency level in = 70; label overlay on image for Sequoia 4K60/4K60L. | | | | |
| Posponso | "Success" – this indicates a successful transmission of HTTP command. | | | | |
| Response | "Wrong format" – this indicates a failure of HTTP command. | | | | |

Table 1.3.1.18 Set Window's Label Color Command



| Audio Tally Color – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows simultaneously.) |
|--|---|
| Function | Set the Audio Tally show / hide in Sequoia 4K60/4K60L. <u>Note</u> : Tally 1 (HDMI embedded audio switch) works only for the Sequoia 4K60L and the first output of Sequoia 4K60. |
| 0 | <pre>show_tally1 (HDMI embedded audio switch) = 0 (hide) or 1 (show)</pre> |
| Cmd-value Format | tally1_on_color = R(0-255),G(0-255),B(0-255),255(fixed) |
| ronnat | tally1_off_color = R(0-255),G(0-255),B(0-255),255(fixed) |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"show_tally1":0}} |
| - | Set the "Tally1" (HDMI audio switch) off for Sequoia 4K60/4K60L. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type":" osd","data":{"show_tally1":1,"tally1_on_color":[253,255,1,255],"tally1_off_color" :[225,0,254,255]}} |
| | Set the "Tally1" (HDMI audio switch) on and off color for Sequoia 4K60/4K60L. |
| Paspansa | "Success" – this indicates a successful transmission of HTTP command. |
| Response | "Wrong format" – this indicates a failure of HTTP command. |
| | |

Table 1.3.1.19 Set System Audio Tally Command

| Audio Tally Show/Hide – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows/monitors simultaneously.) |
|--|--|
| Function | Set the audio tally show/hide. <u>Note</u> : Audio Tally show/hide works in tandem with the OSD is turned on . |
| Cmd-Value Format | <pre>show_tally1 = 0(hide) or 1(show)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"show_tally1":0}} To turn off the audio tally of Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.20 Set Audio Tally Show/Hide Command

| Active Window Border Show/Hide – Set (global setting) | (The global setting is a global command which means the setting will apply to all windows/monitors simultaneously.) |
|--|---|
| Function | Set the active window border's on (show) / off (hide). |
| Cmd-Value Format | active_border = 0(off) or 1(on) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "osd","data":{"active_border":0}} |
| | To turn off the active window border of Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. |
| Kesponse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.21 Set Active Border Show/Hide Command



| Alert Display – Set | |
|------------------------|--|
| Function | Set the alert (fan failure / temperature alert) display on / off. |
| Cmd-Value Format | sob_alarm = 0 (off) or 1 (on) |
| Example | http://192.168.0.228/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "sob_alarm","mode":0} |
| | To turn off the alert display of Sequoia 4K60/4K60L. |
| Posponso | "Success" – this indicates a successful transmission of HTTP command. |
| Кезропзе | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.22 Set Active Border Show/Hide Command

| Power Saving Mode on Monitor – Set | |
|--|--|
| Function | Enable / Disable the power saving mode on a monitor or all monitors. |
| Cmd-Value | port = 0(all) or 1(HDMI OUT 1) or 2(HDMI OUT 2) or 3(HDMI OUT 3) or 4(HDMI OUT 4) or 5(HDMI OUT 5) |
| Format | Note: The HDMI OUT 5 is only available for Sequoia 4K60. |
| | enable = 0(enable power saving mode) or 1(disable power saving mode) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"user","type": "hdmi_output","port":3,"enable":0} |
| Example | To enable power saving mode on the monitor connected to HDMI OUT 3 of Sequoia 4K60/4K60L. |
| Posponso | "Success" – this indicates a successful transmission of HTTP command. |
| Nesponse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.23 Set Power Saving Mode on Monitor Command

| Keyboard/Mouse Idle Detection – Set | | | | | | |
|---|---|---|--------------------------------|---|-----------------------------------|---|
| Function | To designa 4K60/Sequ | ate the idle detection ioia 4K60L, and the | n duration tin en locks the | me of keyboard/mo keyboard/mouse fu | use for Seq nction auto | uoia matically. |
| | idle_time | - | | | | |
| | idle_time | Corresponding to the setting in Web GUI $ ightarrow$ System $ ightarrow$ Gerernal | idle_time | Corresponding to the setting in Web GUI \rightarrow System \rightarrow Gerernal | idle_time | Corresponding to the setting in Web GUI \rightarrow System \rightarrow Gerernal |
| Cmd-Value | 0 | Never | 900 | 15 minutes | 3600 | 1 hour |
| Format | 60 | 1 minute | 1200 | 20 minutes | 7200 | 2 hours |
| | 120 | 2 minutes | 1500 | 25 minutes | 10800 | 3 hours |
| | 180 | 3 minutes | 1800 | 30 minutes | 14400 | 4 hours |
| | 300 | 5 minutes | 2700 | 45 minutes | 18000 | 5 hours |
| | 600 | 10 minutes | | | | |
| Example | http://192. "km","idle To enable | 168.0.5/cgi-bin/co _time":120} idle detecting dura | mmand.cgi | ?cmd=Info&param 2 minutes of Sequo | n={"func": " ia 4K60/4K | ' lock","type": 60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. | | | | | |

Table 1.3.1.24 Set Keyboard/Mouse Idle Detecting Duration Time Command



| Mouse – Set | |
|-------------|---|
| Function | To configure the essential features of mouse for controlling the Sequoia 4K60/Sequoia 4K60L. |
| Cmd-Value | mode = right (right-handed) or left (left-handed) |
| Format | <pre>speed = 0 (slowest) - 14 (fastest)</pre> |
| | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "mouse","mode":"right","speed":14} |
| Example | To configure the left mouse button the one you use for primary functions such as selecting and dragging; and also set the mouse cursor movement as fastest speed of Sequoia 4K60/4K60L. |
| Deenenee | "Success" – this indicates a successful transmission of HTTP command. |
| Response | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.1.25 Set Mouse Command



1.3.2 Commands for Controlling Window

| Window Position and Size – Get | |
|-----------------------------------|---|
| Function | Display the four windows' position/size of Sequoia 4K60/4K60L. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"get","type": "position","port":1} Obtain and display the Sequoia 4K60/4K60L's four window's position/size. |
| Sample Response | See the below screenshot. |

Table 1.3.2.1 Get Position and Size Information of Four Windows Command





| Window position and Size – Set | |
|-----------------------------------|--|
| Function | Set the position and size of a particular window in Sequoia 4K60/4K60L. <u>Note</u> : Be aware of the monitor's display resolution when setting the size of a window so as not to exceed the display boundary. |
| Cmd-Value Format | <pre>port = 1 / 3(port 3 is only available for Sequoia 4K60 in Dual Independent Quad Multiview</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "position","port":1,"win":[{"id":1,"data":[822,6,2364,1380,0,1,1,1]},{"id":2,"data": [0,1431,1184,716,1,1,1,1]},{"id":3,"data":[1278,1440,1192,720,2,1,1,1]},{"id":4,"dat a":[2580,1446,1180,714,3,1,1,1]},"global_option":[0,0,0,0,0],"resolution":[3840,2 160],"default_layout":0,"preset":0} Set the position and size for the four windows of Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command "Wrong format" – this indicates a failure of HTTP command |

Table 1.3.2.2 Set Position and Size of Window(s) Command



| Window Label Text – Get | |
|----------------------------|---|
| Function | Display the label of the input ports of Sequoia 4K60/4K60L. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"get","type": "Iabel"} Obtain and display input port's label information of Sequoia 4K60/4K60L. |
| Response | See the below screenshot. |

Table 1.3.2.3 Get Label of Window Command

| ✓ S 192.168.0.5/cgi-bin/command. × + | | - 🗆 | × |
|---|---|-------------|---|
| ← → C A Not secure 192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":" ☆ | • | 🚓 Incognito | |
| {"sib_label":["Win 11","Mac Mini","Win 10","Media player"]} | | | |

Figure 1.3.2.2 Response of Get Window Label Command

| Window Label Text – Set | |
|----------------------------|---|
| Function | Set the label of the window of Sequoia 4K60/4K60L. |
| Cmd-Value Format | <pre>port = 1(input port 1) / 2(input port 2) / 3(input port 3) / 4(input port 4) label = name; any characters except the following: <> ! @ # & \$ % ^ & * " ' ` /.:; ? =</pre> |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "genlabel","label":[{"port":1,"label":"Windows 10"},{"port":2,"label":"Mac Mini"},{"port":3,"label":"Win XP"},{"port":4,"label":"Blu-ray player"}]} Set the labels for the four windows to become Windows 10 / Mac Mini / Win XP / Blu-ray player for Sequoia 4K60/4K60L. |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "genlabel","label":[{"port":3,"label":"Server_1"}]} Set the label of input port 3 to become Server_1 of Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.2.4 Set the Label of Input Port Command

| Window Show/Hide – Set | |
|---------------------------|---|
| Function | To show or hide a particular window of Sequoia 4K60/4K60L. |
| Cmd-Value Format | <pre>port = 1(input port 1) / 3(input port 3) (The input port "3" command value is only available for Sequoia 4K60 in Dual Independent Quad Multiview + Bypass mode) winid = 1/2/3/4 win_show = 0(hide) / 1(show)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type":"win", "port":1,"winid":1,"data":{"show":0}} Hide the first window of Sequoia 4K60/4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.2.5 Set Window Shown or Hidden Command



| Window Aspect Ratio – Set | |
|------------------------------|--|
| Function | By default, the aspect ratio of a window is set to follow that of its video source. You can also customize the window's aspect ratio. Any window that is resized will follow the aspect ratio. |
| Cmd-Value | winid = $1/2/3/4$ |
| Format | aspect = 0(fill up window) / 1(auto-detect) / 2(16:9) / 3(4:3) / 4 (16:10) / 5(5:4) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type": "win","port":1, "winid":1, "data":{"aspect":2}} Set the aspect ratio of the window 1 of Sequoia 4K60/4K60L to follow 16:9 aspect ratio. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

 Table 1.3.2.6 Set Aspect Ratio of Window Command

| Fullscreen Mode – Set | |
|--------------------------|---|
| Function | Set a particular window's image to display in fullscreen mode. |
| Cmd-Value Format | <pre>full = 0(multiview mode) / 1(window 1) / 2(window 2) / 3(window 3) / 4(window 4)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type": "global_option","port":1,"data":{"full":1}} |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.2.7 Set a Window to Display/Return in/from Fullscreen Mode Command



1.3.3 Commands for Sequoia 4K60

| Routing – Set (Quad Multiview + Workstation mode) | (This command only available for Sequoia 4K60 in <u>Quad Multiview + Workstation</u> configuration mode) |
|---|---|
| Function | To route an input port to a window/output port or to multiple windows/output ports. |
| Cmd-Value Format 1 | <pre>input = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 1 winid = 1/2/3/4 (only apply for HDMI OUT 1)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":1,"winid":4}]}]} Applying the routing of input port 1to display on window 4 of HDMI OUT 1. |
| Cmd-Value Format 2 | <pre>input = 0(Duplicated the HDMI OUT 1 multiview layout display) / 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 2/3/4 winid = 254 (apply for HDMI OUT 2/3/4)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":3,"output":[{"port":2,"winid":254},{"port":4,"wini d":254}]}] Applying the routing of input port 3 to display on the monitors connected to HDMI OUT 2 and HDMI OUT 4. |
| Cmd-Value Format 3 | <pre>input = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 5 winid = 1 (only apply for HDMI OUT 5)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":5,"winid":1}]}]} Applying the routing of input port 1 to display on the monitor connected to HDMI OUT 5. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.3.1 Set Routing Input Port to Output Port(s) Command

| Routing – Set (Seamless Switching mode) | (This command only available for Sequoia 4K60 in <u>Seamless Switching</u> configuration mode) |
|--|--|
| Function | To route an input port to a window/output port or to multiple windows/output ports. |
| Cmd-Value Format 1 | <pre>input = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 1 winid = 1/2/3/4 (only apply for HDMI OUT 1)</pre> |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":1,"winid":4}]}]} Applying the routing of input port 1to display on window 4 of HDMI OUT 1. |
| Cmd-Value Format 2 | <pre>input = 0(Duplicated the HDMI OUT 1 multiview layout display) / 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 2/3/4 winid = 1 (apply for HDMI OUT 2/3/4)</pre> |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":3,"winid":1},{"port":4,"winid" :1}]]]} Applying the routing of input port 1 to display on the monitors connected to HDMI OUT 3 and HDMI OUT 4. |
| Cmd-Value Format 3 | <pre>input = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 5 winid = 1 (only apply for HDMI OUT 5)</pre> |
| Example 3 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":5,"winid":1}]}] Applying the routing of input port 1 to display on the monitor connected to HDMI OUT 5. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.3.2 Set Routing Input Port to Output Port(s) Command



| Routing – Get | |
|---------------------|---|
| Function | Display the input and output port's routing information. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"get","type" :"route2win"} Obtain and display window/output port's routing information. |
| Response | See the below screenshot. |

Table 1.3.3.3 Get the Input/Output's Routing Information Command





| Audio – Set (Quad Multiview + Workstation mode) | |
|--|---|
| Function | Allows setting the audio on/off for monitoring audio source from input port. |
| Cmd-Value Format 1 | <pre>port = 1/2/3/4 (only available for HDMI OUT 1) winid = 1/2/3/4 (only avialable for HDMI OUT 1) winid = 0(turn off the audio)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio", "port":1, "winid":1} |
| | Turn on audio source for window 1 of Sequoia 4K60. |
| Cmd-Value | port = 2/3/4 (only available for HDMI OUT 2/3/4) |
| Format 2 | wind = 254 (apply for HDM OOT $2/3/4$) wind = 0(turn off the audio) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio","port":2,"winid":254} |
| | Turn on audio source for HDMI OUT 2 of Sequoia 4K60. |
| Cmd-Value Format 3 | <pre>port = 5 (only available for HDMI OUT 5) winid = 1 (only avialable for HDMI OUT 5) winid = 0(turn off the audio)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio","port":5,"winid":0} |
| | Turn off audio source for HDMI OUT 5 of Sequoia 4K60. |
| Response | "Success" – this indicates a successful transmission of HTTP command. |
| Nesponse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.3.4 Set Audio Command



| Audio – Set (Seamless Switching mode) | (This command only available for Sequoia 4K60 in <u>Seamless Switching</u> configuration mode) |
|---|--|
| Function | Allows setting the audio on/off for monitoring audio source from input port. |
| Cmd-Value Format 1 | <pre>port = 1 (only available HDMI OUT 1) winid = 1/2/3/4 (only avialable for HDMI OUT 1) winid = 0(turn off the audio)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio", "port":1, "winid":1} Turn on audio source for window 1 of Sequoia 4K60. |
| Cmd-Value Format 2 | <pre>port = 2/3/4/5 (only available for HDMI OUT 2 - 5) winid = 1 (only avialable for HDMI OUT 2 - 5) winid = 0(turn off the audio)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio","port":3,"winid":1} Turn on audio source for HDMI OUT 3 of Sequoia 4K60. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.3.5 Set Audio Command



1.3.4 Commands for Sequoia 4K60L

| Routing – Set (Quad Multiview + Bypass (Daisy Chain Capable) mode) – HDMI OUT 1 | (This command only available for <u>HDMI OUT 1</u> of Sequoia 4K60L in <u>Quad Multiview</u> <u>+ Bypass (Daisy Chain Capable)</u> configuration mode) |
|--|---|
| Function | To route an input port's source to display a window or multiple windows on HDMI OUT 1 of Sequoia 4K60L. |
| Cmd-Value Format | <pre>input = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) winid = 1/2/3/4</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":1,"winid":4}]}]} |
| | Applying the routing of input port 1 to display on window 4 of HDMI OUT 1 . |
| Paspansa | "Success" – this indicates a successful transmission of HTTP command. |
| Response | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.1 Set Routing Input Port to Window(s) Command

| Routing – Set (Quad Multiview + Bypass (Daisy Chain Capable) mode)– HDMI OUT 2/3 | (This command only available for <u>HDMI OUT 2/3</u> ports of Sequoia 4K60L in <u>Quad</u> <u>Multiview + Bypass (Daisy Chain Capable)</u> configuration mode) |
|---|---|
| Function | To route an input port's source to display on HDMI OUT 2 / HDMI OUT 3. |
| Cmd-Value Format | <pre>port = 2(HDMI OUT 2) / 3(HDMI OUT 3) from = 1(Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"hdmi_output","port":2,"enable":1,"mode":2,"from":1} |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.2 Set Routing Input Port to Output Port(s) Command

| Routing – Set (Single-View Seamless Switching mode) | (This command only available for Sequoia 4K60L in <u>Single–View Seamless</u> <u>Switching</u> configuration mode) |
|--|--|
| Function | To route an input port to a window/output port or to multiple windows/output ports. |
| Cmd-Value Format | <pre>input = 1 (Input port 1) / 2(Input port 2) / 3(Input port 3) / 4(Input port 4) port = 1/2/3/4</pre> |
| Example 1 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":1,"output":[{"port":3,"winid":1}]}]} Applying the routing of input port 1 to display on the monitors connected to HDMI OUT 3 |
| Example 2 | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type" :"route2win","route":[{"input":4,"output":[{"port":2,"winid":1},{"port":3,"winid" :1}]]}] Applying the routing of input port 4 to display on the monitors connected to HDMI OUT 2 and HDMI OUT 3. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.3 Set Routing Input Port to Output Port(s) Command



| Routing – Get | |
|---------------------|---|
| Function | Display the input and output port's routing information. |
| Cmd-Value Format | None |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"get","type": "hdmi_output"} |
| | Obtain and display window/output port's routing information. |
| Response | See the below screenshot. |

Table 1.3.4.4 Get the Input / Output Routing Information Command







Figure 1.3.4.2 Example 1: Response of Input / Output Routing Information (Seamless Switching Mode)

| K/M Mode – Set (K/M remain mode After Reboot) (Quad Multiview + Bypass (Daisy Chain Capable) mode) | (This command only available for the port marked <u>HDMI OUT of Sequoia 4K60L in Quad Multiview + Bypass (Daisy Chain Capable)</u> configuration mode) |
|--|---|
| Function | Allows setting the K/M (keyboard/mouse) remain in <u>Remote</u> or <u>Host</u> mode after power on the Sequoia 4K60L. The K/M mode setting of Sequoia 4K60L through this command will be saved in the Sequoia 4K60L's flash memory. |
| Cmd-Value Format | mode = 0(<u>Host</u> mode) / 1(window 1's <u>Remote</u> mode) / 2(window 2's <u>Remote</u> mode) / 3(window 3's <u>Remote</u> mode) / 4(window 4's <u>Remote</u> mode) |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type": "PowerOn_KMmode","port":1, "mode":1} Set the keyboard/mouse control remains in Window1's <u>Remote</u> mode after reboot. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.5 Set Power on K/M Mode Command



| K/M Control – Set (Randomly switch KM control) (Quad Multiview + Bypass (Daisy Chain Capable) mode) | (This command only available for the port marked <u>HDMI OUT</u> of Sequoia 4K60L in <u>Quad Multiview + Bypass (Daisy Chain Capable)</u> configuration mode) |
|--|---|
| Function | Allows randomly switching the K/M (keyboard/mouse) control in <u>Remote</u> or <u>Host</u> mode of the Sequoia 4K60L. |
| Cmd-Value Format | <pre>winid = 0(Host mode) / 1(Window 1's <u>Remote</u> mode) / 2(Window 2's <u>Remote</u> mode) / 3(Window 3's <u>Remote</u> mode) / 4(Window 4's <u>Remote</u> mode)</pre> |
| Example | 192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type": "enter_remote","port":1,"winid":4} |
| | Allows keyboard/mouse control switching to Window 4's <u>Remote</u> mode, means keyboard/mouse can directly control the designated remote PC. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.6 Switch K/M Control Command

| Audio – Set (Quad Multiview + Bypass (Daisy Chain Capable) mode) | |
|--|--|
| Function | Allows setting the audio on/off for monitoring audio source from input port. |
| Cmd-Value Format | port = 1 (only available for HDMI OUT 1 of Sequoia 4K60L) |
| 1 | winid = 1/2/3/4 (only avialable for HDMI OUT 1 of Sequoia 4K60L) |
| • | winid = 0(turn off the audio) |
| | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": |
| Example | "audio", port":1,"winid":2} |
| | Turn on audio source for window 2 of Sequoia 4K6L. |
| Cmd-Value Format | port = 2 / 3 (only available for HDMI OUT 2 and HDMI OUT 3 of Sequoia 4K60L) |
| 2 | <pre>winid = 1 (only avialable for HDMI OUT 2 and HDMI OUT 3 of Sequoia 4K60L)</pre> |
| - | winid = 0(turn off the audio) |
| _ | http://192.168.0.185/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": |
| Example | "audio","location":1,"port":3,"winid":1} |
| | Turn on audio source for HDMI OUT 3 of Sequoia 4K60L. |
| Response | "Success" – this indicates a successful transmission of HTTP command. |
| Kesponse | "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.7 Set Audio Command

| Audio – Set (Single-View Seamless Switching mode) | (This command only available for Sequoia 4K60L in <u>Single-View Seamless</u> <u>Switching</u> mode) |
|--|--|
| Function | Allows setting the audio on/off for monitoring audio source from input port. |
| Cmd-Value | port = 1/2/3/4 |
| Format | <pre>winid = 1(turn on the audio), or 0(turn off the audio)</pre> |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=2060¶m={"func":"set","type": "audio","port":3,"winid":1} Turn on audio source for HDMI OUT 3 of Sequoia 4K60. |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. |

Table 1.3.4.8 Set Audio Command



| Function | Set the frame rate and resolution of HDMI OUT for Sequoia 4K60L. | | | | | |
|-----------|--|--|----------|-------------------------------|-----------------|--|
| | <pre>port = 1 (only port 1 is available when Sequoia 4K60L is in this mode.)</pre> | | | | | |
| | mode = | mode = 0/107/106/199/200/99/98/96/95/181/209/74/70/143/205 | | | | |
| | Mode | Resolution | Mode | Resolution | | |
| | 0 | auto detect (obtain EDID from the connected display) | 181 | 1920×1200 60Hz | | |
| | 107 | 4096×2160 60Hz | 209 | 1920×1200 50Hz | | |
| Cmd Volue | 106 | 4096×2160 50Hz | 74 | 1920×1080 60Hz | | |
| Format | 199 | 3840×2400 60Hz | 70 | 1920×1080 50Hz | | |
| | 200 | 3840×2400 50Hz | 143 | 1280×1024 60Hz | | |
| | 99 | 3840×2160 60Hz | 205 | 1280×1024 50Hz | | |
| | 98 | 3840×2160 50Hz | | | | |
| | 96 | 3840×2160 30Hz | | | | |
| | 95 | 3840×2160 25Hz | | | | |
| Example | http://19 "resolu | 92.168.0.5/cgi-bin/comman tion","port":1,"mode":99} | d.cgiʻ | cmd=2060¶m={"func? | ":"set","type": | |
| | Set the | HDMI OUT monitor's frame | rate ar | nd output resolution at 3840× | «2160 60Hz. | |
| Response | "Succes | ss" – this indicates a succes | sful tra | ansmission of HTTP comman | nd. | |
| | "Wrong | format" – this indicates a fa | ailure d | of HITP command. | | |

Table 1.3.4.9 Set the Frame Rate and Output Resolution Command

| Output Resolution – Set (Single-View Seamless Switching mode) | | | | | |
|---|----------------------------------|--|---------------------------|----------------------------|---------------------------------|
| Function | Set the | Sequoia 4K60L display's frai | me rate | and resolution. | |
| | port = 1 mode = | /2/3/4 0/107/106/199/200/99/98/96 | 6/95/18 | 1/209/74/70/143/205 | |
| | Mode | Resolution | Mode | Resolution | |
| | 0 | (obtain EDID from the connected display) | 181 | 1920×1200 60Hz | |
| | 107 | 4096×2160 60Hz | 209 | 1920×1200 50Hz | |
| a | 106 | 4096×2160 50Hz | 74 | 1920×1080 60Hz | |
| Cmd-Value Format | 199 | 3840×2400 60Hz | 70 | 1920×1080 50Hz | |
| | 200 | 3840×2400 50Hz | 143 | 1280×1024 60Hz | |
| | 99 | 3840×2160 60Hz | 205 | 1280×1024 50Hz | |
| | 98 | 3840×2160 50Hz | | | |
| | 96 | 3840×2160 30Hz | | | |
| | 95 | 3840×2160 25Hz | | | |
| Example | http://19 "resolut Set the | 92.168.0.5/cgi-bin/comman tion","port":3,"mode":99} HDMI OUT 3 monitor's frame | d.cgi? e rate a | cmd=2060¶m={"func":"s | et","type": 160 60Hz. |
| Response | "Succes "Wrong | ss" – this indicates a succes format" – this indicates a fa | sful trai ailure of | nsmission of HTTP command. | |
| | T . I . I | | | | |

 Table 1.3.4.10
 Set Frame Rate and Output Resolution Command



1.3.5 Command for Sequoia 4K60L in Daisy Chain

1 The IP address for receiving http command will be the IP address of the primary Sequoia 4K60L in daisy chained.

| Label Text – Set | (This command is only available for Sequoia 4K60L in daisy chain configuration.) | | | | |
|---------------------|--|--|--|--|--|
| Function | Set the label of the daisy chain windows for Sequoia 4K60L. | | | | |
| | <pre>port = 1 - 16 label = name; any characters except the following: < > ! @ # & \$ % ^ & * " '` /.:; ? = <u>Note</u>: The corresponding input port number in default layout of different daisy chain configurations is as below table.</pre> | | | | |
| Cmd-Value Format | Daisy chain quantity Two Sequoia 4K60L Three Sequoia 4K60L Four Sequoia 4K60L Five Sequoia 4K60L | | | | |
| | Input port number Port 4 Port 1 Port 2 Port 1 Port 2 Port 2 Port 1 Port 2 Port 2 Port 1 Port 1 Port 2 Port 1 Port 1 Por | | | | |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Info¶m={"func":"set","type": "genlabel","daisy":1,"label":[{"port":1,"label":"Window_10"},{"port":3,"label":" Mac_mini"},{"port":12,"label":"Blu-ray_player"}]} Set the label of input port 1 / 3 / 12 in daisy chain to become Windows 10 / Mac Mini / Blu-ray player. | | | | |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. | | | | |

Table 1.3.5.1 Set the Label of Input port for Daisy Chain Command

| Audio – Set | (This command is only available for Sequoia 4K60L in daisy chain configuration.) | | | | | | |
|---------------------|---|--|--|--|--|--|--|
| Function | Allows setting a particular window's audio on/off for monitoring. | | | | | | |
| | winid = 1 – 16 (turn on the audio) / 0(turn off the audio) | | | | | | |
| Cmd-Value Format | configurations is as below table. | | | | | | |
| | Daisy chain quantity Two Sequoia 4K60L Three Sequoia 4K60L Four Sequoia 4K60L Five Sequoia 4K60L | | | | | | |
| | Win ID 4 Win ID 5 Win ID 5 Win ID 5 Win ID 4 Win ID 5 Win ID 5 Win ID 5 Win ID 7 Win ID 7 | | | | | | |
| Example | http://192.168.0.5/cgi-bin/command.cgi?cmd=Daisy¶m={"func":"set","type": "audio","location":1,"port":1,"winid":12} | | | | | | |
| | Turn on source's audio of window ID 12. | | | | | | |
| Response | "Success" – this indicates a successful transmission of HTTP command. | | | | | | |
| | "Wrong format" – this indicates a failure of HTTP command. | | | | | | |

Table 1.3.5.2 Set Audio Command



| K/M Control – Set (Randomly switch KM control) | | | | | | | |
|---|---|--|--|--|--|--|--|
| Function | Allows randomly switching the K/M (keyboard/mouse) control in <u>Remote</u> or <u>Host</u> mode of the Sequoia 4K60L in daisy chain configuration. | | | | | | |
| | winid = 1 – 16 (Window's Remote mode) / 0 (Host mode) | | | | | | |
| Cmd-Value Format | <u>Note</u> : The corresponding window ID number in default layout of different daisy chain configurations is as below table. | | | | | | |
| | Daisy chain quantity Two Sequoia 4K60L Three Sequoia 4K60L Four Sequoia 4K60L Five Sequoia 4K60L | | | | | | |
| | Win D4 Win D5 Win D5< | | | | | | |
| Example | 192.168.0.5/cgi-bin/command.cgi?cmd=Ext¶m={"func":"set","type":"enter_remote" ,"port":1,"winid":8} | | | | | | |
| | Allows keyboard/mouse control switching to Window ID 8's <u>Remote</u> mode, means keyboard/mouse can directly control the designated remote PC. | | | | | | |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. | | | | | | |

| Output Resolution – Set | | | | | | | | |
|----------------------------|---|--|--------------------------|--|------------------------------------|--|--|--|
| Function | Set the daisy chained 4K60L display's frame rate and resolution. | | | | | | | |
| | port = 1 mode = | 0/107/106/199/200/99/98/96 | 6/95/18 | 1/209/74/70/143/205 | | | | |
| | Mode | Resolution | Mode | Resolution | | | | |
| | 0 | auto detect (obtain EDID from the connected display) | 181 | 1920×1200 60Hz | | | | |
| | 107 | 4096×2160 60Hz | 209 | 1920×1200 50Hz | | | | |
| Cmd Value | 106 | 4096×2160 50Hz | 74 | 1920×1080 60Hz | | | | |
| Format | 199 | 3840×2400 60Hz | 70 | 1920×1080 50Hz | | | | |
| | 200 | 3840×2400 50Hz | 143 | 1280×1024 60Hz | | | | |
| | 99 | 3840×2160 60Hz | 205 | 1280×1024 50Hz | | | | |
| | 98 | 3840×2160 50Hz | | | | | | |
| | 96 | 3840×2160 30Hz | | | | | | |
| | 95 | 3840×2160 25Hz | | | | | | |
| Example | http://19 "resolu Set the | 92.168.0.5/cgi-bin/comman tion","port":1,"mode":99} HDMI OUT monitor's frame r | d.cgi? rate an | cmd=2060¶m={"func": d output resolution at 3840×2 | " set","type": 160 60Hz. | | | |
| Response | "Success" – this indicates a successful transmission of HTTP command. "Wrong format" – this indicates a failure of HTTP command. | | | | | | | |

Table 1.3.5.4 Set the Frame Rate and Output Resolution Command