VERSA-4K Telnet Commands V1.3

FW Version:

VERSA-4K-R	V1.2 A7.2.0 Build 3213
VERSA-4K-S	V1.2 A7.2.0 Build 3213

Server Information

TCP Port	9999
Connection Type	Raw Socket
Max Concurrent Connections	4

Server Messages

VERSA-4K Telnet Server<CR><LF>	Greeting Message
><SPACE>	Prompt
Invalid Command!<CR><LF>	Unknown/ Invalid command
Invalid Parameters!<CR><LF>	Arguments for the command are invalid
OK<CR><LF>	Command execution Successful
ERROR<CR><LF>	Command execution Unsuccessful
USAGE Help : <CR><LF>	Usage of the command on invalid parameters

Notes

The response of all APIs with 'set_' prefix will be broadcast to all connected clients.

Revisions

Revision	Date	Author	Notes
1.2	04/24,2023	Sid	Add `set_serial_buad, get_serial_baud, set_serial_mode, get_serial_mode, get_video_status, get_audio_statuss, send_ir, send_cec, send_serial, set_line_out_level, get_line_out_level, get_free_routing_group_id, set_free_routing_group_id, set_auto_off, set_auto_on, get_auto_off , get_auto_on, set_subscribe, notify`
1.3	06/29,2023	Sid	Add `set_hdcp_en, get_hdcp_en`
1.4	10/17,2023	Sid	Change all response for the API start with 'set_' prefix with full setting and broadcasting it for other clients know what happened without polling. Remove "set_subscribe", always broadcasting API set, and notify video and audio status change.

Commands

Type	Command	Response	Description	Example
TX/RX	get_device_type	*[TYPE]* **Where:** *[TYPE]* = TX | RX	Get device Type	
TX/RX	set_device_id *[DEVICE_ID]* **Where:** *[DEVICE_ID]*= 16 Character ASCII String	set_device_id *[DEVICE_ID]* OK	Set device Name	
TX/RX	get_device_id	*[DEVICE_ID]* **Where:** *[DEVICE_ID]*= 16 Character ASCII String	Get device Name	
TX/RX	get_group_id	0 -9999	Get Multicast Group ID	
TX/RX	set_group_id *[GROUP_ID]* **Where:** *[GROUP_ID]* = Integer in range 0 - 9999	set_group_id *[GROUP_ID]* OK	Set Multicast Group ID by Disabling Independent Routing	
TX/RX	set_ip_mode *[MODE]* **Where:** *[MODE]* = autoip | static | dhcp **Default:** dhcp	set_ip_mode *[MODE]* OK	Set IP Mode (Reboot Required) [GB-487]	
TX/RX	get_ip_mode *[MODE]*	*[MODE]* **Where:** *[MODE]* = autoip | static | dhcp	Get IP Mode	
TX/RX	set_device_ip *[IPV4 Address]*	set_device_ip *[IPV4 Address]* OK	Set Device IP Address (Reboot Required)	
TX/RX	get_device_ip	*[IPV4 Address]*	Get Device IP Address	
TX/RX	set_device_sbn *[IPV4 Address]*	set_device_sbn *[IPV4 Address]* OK	Set Device Subnet Mask (Reboot Required)	
TX/RX	get_device_sbn *[IPV4 Address]*	*[IPV4 Address]*	Get Device Subnet Mask	
TX/RX	set_device_gw*[IPV4 Address]*	set_device_gw*[IPV4 Address]* OK	Set Device Gateway (Reboot Required)	

Type	Command	Response	Description	Example
TX/RX	get_device_gw *[IPV4 Address]*	*[IPV4 Address]*	Get Device Gateway	
TX/RX	get_device_mac	*[MAC Address]*	Get Device MAC Address	
TX/RX	set_jumbo_frame *[MODE]* **Where:** *[MODE]* = 1500 | 8000	set_jumbo_frame *[MODE]* OK	Enable or Disable Jumbo Frame (Reboot Required)	
TX/RX	get_jumbo_frame	*[MODE]* **Where:** *[MODE]* = 1500 | 8000	Get Jumbo Frame status	
TX/RX	close		Close the telnet session	
TX/RX	reboot		Reboot System	
TX/RX	factory_default		Factory Default	
TX/RX	help	*[Help Information Table]*	Print all the available commands	
RX	set_video_wall [X,Y](x,y) **Where:** X = Horizontal Monitor Count (Max = 16) Y = Vertical Monitor Count (Max = 16) x = Horizontal Position (Max = 15) y = Vertical Position (Max = 15)	set_video_wall [X,Y](x,y) OK	Set Video Wall of Size [X,Y] and position (x,y) **Note:** set_video_wall [1,1](0,0) to disable the Video Wall	
RX	get_video_wall	[X,Y](x,y) **Where:** X = Horizontal Monitor Count (Max = 16) Y = Vertical Monitor Count (Max = 16) x = Horizontal Position (Max = 15) y = Vertical Position (Max = 15)	Get the Video Wall size	
TX/RX	set_serial_buad *[Baud Setting]* **Where:** *[Baud Setting]* = *{B}-{D}{P}{S}* *{B}* = 300~115200 *{D}* = 5,6,7,8 *{P}* = n,e,o *{S}* = 1,2 **Default**: 115200-8n1	set_serial_buad *[Baud Setting]* OK	Set Serial baud rate configuration. [GB-494]	> set_serial_baud 115200-8n1<CR><LF> set_serial_baud 115200-8n1 OK<CR><LF> >
TX/RX	get_serial_baud	*[Baud Setting]* **Where:**	Get Serial baud rate configuration. [GB-494]	> get_serial_baud<CR><LF> 115200-8n1<CR><LF> >

Type	Command	Response	Description	Example
		[Baud Setting] = {B}-{D}{P}{S} *{B}* = 300~115200 *{D}* = 5,6,7,8 *{P}* = n,e,o *{S}* = 1,2 **Default:** 115200-8n1		
TX/RX	set_serial_mode *[MODE]* **Where:** *[MODE]* = guest | passthrough **Default:** guest	set_serial_mode *[MODE]* OK	Set Serial mode. [GB-493][GB-492]	> set_serial_mode guest<CR><LF> set_serial_mode guest OK<CR><LF> >
TX/RX	get_serial_mode	*[MODE]* **Where:** *[MODE]* = guest | passthrough **Default:** guest	Get Serial mode. [GB-493][GB-492]	> get_serial_mode<CR><LF> guest<CR><LF> >
TX/RX	get_video_status	*[VIDEO_STATUS]* **Where:** *[VIDEO_STATUS] = {RES}* | no_signal *{RES} =* *{width}x{height}@{hz},{hdcp}* *{width} = 0~4096* *{height} = 0~2160* *{hz} = 0~60* *{hdcp}* = hdcp1.4 | hdcp2.2 | hdcp_none	Get Video Signal Status [GB-491]	> get_video_status<CR><LF> 1920x1080@60,hdcp1.4<CR><LF> >
TX/RX	get_audio_statuss	*[AUDIO_STATUS]* **Where:** *[AUDIO_STATUS]* = {INFO} | no_signal *{INFO} = {rate},{bit},{ch}* *{rate} = 32000~192000* *{bit}* = 16 | 24 *{ch}* = 2 | 8	Get Audio Signal Status [GB-491]	> get_audio_status<CR><LF> 48000,24,2<CR><LF> >
TX/RX	send_ir *[IR]* **Where:** *[IR]* = Pronto IR hex code with space	OK	Send IR code to IR Out port. [GB-490][GB-489]	> send_ir 0000 0067 0023 0000 0158 00b4 0014 0017 0014 0017 0013 0017 0014 0017 0014 0017 0014 0017 0014 0017 0013 0017 0014 0043 0014 0044 0014 0043 0014 0043 0014 0044 0014 0043 0014 0043 0014 0044 0014 0017 0014 0043 0013 0017 0014 0017 0014 0043 0015 0016 0014 0017 0014 0017 0014 0043 0014 0017 0014 0043 0014 0044 0014 0017 0014 0043 0014 0043 0014 0044 0013 063a 0158 005a 0014<CR><LF> OK<CR><LF> >
TX/RX	send_cec *[CEC]* **Where:** *[CEC]* = CEC hex code separated by colons, for example 40:04	OK	Send CEC frames to HDMI In on Encoder or HDMI Out on Decoder [GB-479]	> send_cec 40:04<CR><LF> OK<CR><LF> >
TX/RX	send_serial *[FORMAT],[SERIAL]* **Where:** *[FORMAT]* = ascii | hex *[SERIAL]* = serial data **NOTE:** baud rate set with 'set_serial_mode'	OK	Send serial data to RS232 port. [GB-490][GB-481]	> send_serial ascii,test<CR><LF> OK<CR><LF> >
TX/RX	set_line_out_level *[LEVEL]* **Where:** *[LEVEL]* = 0~100 **Default:** 100	set_line_out_level *[LEVEL]* OK	Set line out level. [GB-484]	> set_line_out_level 90<CR><LF> set_line_out_level 90 OK<CR><LF> >
TX/RX	get_line_out_level	*[LEVEL]* **Where:**	Get line out level. [GB-484]	> get_line_out_level<CR><LF> 90<CR><LF> >

Type	Command	Response	Description	Example
		[LEVEL] = 0~100 **Default:** 100		
TX/RX	get_free_routing_group_id	*[VID],[AID],[UID],[RID],[SID],[CID]* **Where:** *[XID]* = 0~9999	Get Multicast Group ID [GB-483]	> get_free_routing_group_id<CR><LF> 100,101,102,103,104,105,106<CR><LF> >
TX/RX	set_free_routing_group_id *[VID],[AID],[UID],[RID],[SID],[CID]* **Where:** *[XID]* = 0~9999	set_free_routing_group_id *[VID],[AID],[UID],[RID],[SID],[CID]* OK	Set Multicast Group ID by Disabling Independent Routing [GB-483]	> set_free_routing_group_id 100,101,102,103,104,105,106<CR><LF> set_free_routing_group_id 100,101,102,103,104,105,106 OK<CR><LF> >
RX	set_auto_off *[MODE],[TIME],[CMD]* **Where:** *[MODE]* = none | cec | serial | ir *[TIME]* = *0~7200 seconds* *[CMD]* = hex for cec, serial, ir code **Default:** none	set_auto_off *[MODE],[TIME],[CMD]* OK	Set Auto Power Off command. [GB-477]	> set_auto_off cec,20,ff:36<CR><LF> set_auto_off cec,20,ff:36 OK<CR><LF> >
RX	set_auto_on *[MODE],[TIME],[CMD]* **Where:** *[MODE]* = none | cec | serial | ir *[TIME]* = *0~7200 seconds* *[CMD]* = hex for cec, serial, ir code **Default:** none	set_auto_on *[MODE],[TIME],[CMD]* OK	Set Auto Power On command. [GB-477]	> set_auto_on cec,20,40:04<CR><LF> set_auto_on cec,20,40:04 OK<CR><LF> >
RX	get_auto_off	*[MODE],[TIME],[CMD]* **Where:** *[MODE]* = none | cec | serial | ir *[TIME]* = *0~7200 seconds* *[CMD]* = hex for cec, serial, ir code **Default:** none	Get Auto Power Off command. [GB-477]	> get_auto_off<CR><LF> cec,20,ff:36<CR><LF> >
RX	get_auto_on	*[MODE],[TIME],[CMD]* **Where:** *[MODE]* = none | cec | serial | ir *[TIME]* = *0~7200 seconds* *[CMD]* = hex for cec, serial, ir code **Default:** none	Get Auto Power On command. [GB-477]	> get_auto_off<CR><LF> cec,20,40:04<CR><LF> >
~~TX/RX~~	~~set_subscribe *[SUBSCRIPTION]*~~ ~~**Where:**~~ ~~*[SUBSCRIPTION]* = *all* | *{apisubset}* | *{api}*~~ ~~*{apisubset}* = settings | status~~ ~~*{api}* = API in this list start with 'set_'~~	~~set_subscribe *[SUBSCRIPTION]* OK~~	~~Subscribe the notification, when related API settings/status change, API client will get notification.~~ ~~When~~	~~> set_subscribe all<CR><LF> set_subscribe all OK<CR><LF> >~~
TX/RX	notify video_sync_detected,*[VIDEO_STATUS]* notify video_sync_none notify audio_sync_detected,*[AUDIO_STATUS]* notify audio_sync_none **Where:** *[VIDEO_STATUS]* = *{RES}* | no_signal *{RES}* = *{width}x{height}@{hz},{hdcp}* *{width}* = *0~4096* *{height}* = *0~2160* *{hz}* = *0~60* *{hdcp}* = hdcp1.4 | hdcp2.2 | hdcp_none *[AUDIO_STATUS]* = {INFO} | no_signal *{INFO}* = *{rate},{bit},{ch}* *{rate}* = *32000~192000*	N/A	When video audio sync changes, device will broadcast the information to all connect API clients. **NOTE:** This API direction is from API server to API client.	> notify video_sync_detected,1920x1080@60,hdcp1.4<CR><LF> > notify video_sync_none<CR><LF> > notify audio_sync_detected,48000,24,2<CR><LF> > notify audio_sync_none<CR><LF> >

Type	Command	Response	Description	Example
	{bit} = 16 | 24 *{ch}* = 2 | 8			
TX	set_hdcp_en *[HDCP]* **Where:** *[HDCP]* = 2.2 | 1.4 | disable	set_hdcp_en *[HDCP]* OK	Set TX's HDMI input HDCP capability. 2.2 means up to HDCP 2.2 and including HDCP 1.4 supported.	> set_hdcp_en 2.2<CR><LF> set_hdcp_en 2.2 OK<CR><LF> >
TX	get_hdcp_en	*[HDCP]* **Where:** *[HDCP]* = 2.2 | 1.4 | disable	Get TX's HDMI input HDCP capability. 2.2 means up to HDCP 2.2 and including HDCP 1.4 supported.	> get_hdcp_en<CR><LF> 2.2<CR><LF> >