



HE-2150UM-R Command List History

Version	Firmware version	Description	Released Date	Modified by
1.0	MCU: V1.10.03 WEB: V2.00.05 RK3308 SUB MCU: V2.00.00	First Release	2025-12-15	Hovey Tam

HE-2150UM-R Command List (1/2)

ASCIi Command

1. Service port (USB-C virtual RS-232) communication protocol (Internal debug).
 Baud rate: 115200 (Fixed), Data bits: 8, Stop bits: 1, Parity bit: None
 The end mark of command is "<CR><LF>"
2. TCP/IP Port: 8000
 The end mark of command is "<CR><LF>" TCP/IP protocol port: 8000

System Setting

No.	Command	Description	Parameters	Example	Feedback
1.1	?	Get the list of all commands	N/A	?	List all API commands
1.2	help	Get the list of all commands	N/A	help	List all API commands
1.3	status	Get device current status	N/A	status	List out Status Info
1.4	get version	Get firmware version	N/A	get version	BOOT: V1.00.02 MCU: V1.10.03 WEB: V2.00.05 RK3308 SUB MCU: V2.00.00
1.5	reboot	Reboot the device	N/A	reboot	Reboot... System Initializing... Initialization Finished! BOOT: V1.00.02 MCU: V1.10.03 WEB: V2.00.05 RK3308 SUB MCU: V2.00.00
1.6	reset	Reset system settings to default (Should type "yes" to confirm, "no" to discard)	N/A	reset	Sure to reset system settings to default? Type "yes" after next prompt to confirm...
1.7	reset all	Reset system and network settings to default (Should type "yes" to confirm, "no" to discard)	N/A	reset all	Sure to reset system and network settings to default? Type "yes" after next prompt to confirm...
1.8	set front button [fbtn]	Set front button lock status	fbtn=[0:Unlocked; 1:Locked] Default: 0	set front button 0	Front button unlocked
1.9	get front button	Get front button locked on/off status	N/A	get front button	Front button unlocked
1.10	set time auto [time]	Set time system auto status	time=[0: Off; 1:On] Default: 0	set time auto 0	Time auto off
1.11	get time auto	Get time system auto status	N/A	get time auto	Time auto off
1.12	set ntp server [ntp]	Set NTP server url address	ntp= NTP server URL address	set ntp server <us.pppl.ntp.org>	Ntp server <us.pppl.ntp.org>
1.13	get ntp server	Get NTP server url address	N/A	get ntp server	Ntp server <us.pppl.ntp.org>
1.14	set current time <[y], [m], [d], [h], [mm], [s]>	Set current time	y=[2025~2125]:Year m=[1~12]:Month d=[1~31]:Date h=[0~23]:Hour mm=[0~59]:Minute s=[0~59]:Second	set current time <2025, 4, 14, 9, 0, 0>	Current time <2025, 4, 14, 9, 0, 0>
1.15	get current time	Get current time	N/A	get current time	Current time <2025, 4, 14, 9, 0, 0>
1.16	get temp	Get device internal temperature	N/A	get temp	45C
1.17	get uptime	Get device running time (Day:Hour:Min:Sec)	N/A	get uptime	000:00:13:04
1.18	set uart to vs	Set uart to FROM TX	N/A	set uart to vs	Uart to Valens
1.19	get hdbt length	Get FROM TX cable length meters	N/A	get hdbt length	HDBT length: 70m
1.20	get hdbt link	Get FROM TX link status	N/A	get hdbt link	HDBT link: on
1.21	get hdbt signal	Get FROM TX signal status	N/A	get hdbt signal	HDBT signal: on
1.22	get hdbt error	Get FROM TX error	N/A	get hdbt error	HDBT error: 10 10 10 10 10
1.23	get system log	Get system log	N/A	get system log	[2025-04-27 16:49:00][1]Manual switch to FROM TX

Input Setting

No.	Command	Description	Parameters	Example	Feedback
2.1	set input [input]	Select input source	input=[1:FROM TX; 2:Local HDMI] Default: 1	set input 1	FROM TX
2.2	get input	Get input source	N/A	get input	FROM TX
2.3	set autoswitch [autosw]	Set auto-switching status	autosw=[0:Off; 1:On] Default: 1	set autoswitch 1	Autoswitch on
2.4	get autoswitch	Get auto-switching status	N/A	get autoswitch	Autoswitch on
2.5	get input [port] cable	Get input port(s) cable status	port=[0:All inputs; 1:FROM TX; 2: Local HDMI]	get input 0 cable	FROM TX cable: connected Local HDMI cable: disconnected
2.6	set input [port] edid [edid]	Set input port(s) EDID	port=[0:All inputs; 1:FROM TX; 2: Local HDMI] edid=[1:Copy HDMI Out; 2:4K2K60_444, Audio 2CH PCM; 3:4K2K60_444, Audio 5.1CH DTS/DOLBY; 4:4K2K60_444, Audio 7.1CH DTS/DOLBY/HD; 5:4K2K30_444, Audio 2CH PCM; 6:4K2K30_444, Audio 5.1CH DTS/DOLBY; 7:4K2K30_444, Audio 7.1CH DTS/DOLBY/HD; 8:1080P60_444, Audio 2CH PCM; 9:1080P60_444, Audio 5.1CH DTS/DOLBY; 10:1080P60_444, Audio 7.1CH DTS/DOLBY/HD; 11:720P60_444, Audio 2CH PCM; 12:1920x1200, Audio 2CH PCM; 13:1680x1050, Audio 2CH PCM; 14:1600x1200, Audio 2CH PCM; 15:1440x900, Audio 2CH PCM; 16:1360x768, Audio 2CH PCM; 17:1280x1024, Audio 2CH PCM; 18:1024x768, Audio 2CH PCM; 19:User Defined 1; 20:User Defined 2] Default: 1	set input 0 edid 1	FROM TX EDID_01: Copy HDMI Out Local HDMI EDID_01: Copy HDMI Out
2.7	get input [port] edid	Get input port(s) EDID mode	port=[0:All inputs; 1:FROM TX; 2: Local HDMI]	get input 0 edid	FROM TX EDID_01: Copy RX HDMI Out Local HDMI EDID_01: Copy RX HDMI Out
2.8	set user edid [uedid] <[data]>	Set user defined EDID	uedid=[1:User defined 1; 2:User defined 2] data=[00 FF FF ...]; 256 bytes EDID data	set user edid 1 <00 FF FF FF....>	User defined 1 EDID is loaded successfully
2.9	get edid data [edidvalue]	Get EDID data value	edidvalue=[0:All EDID; 1:FROM TX; 2:Local HDMI; 3:HDMI output; 4:User defined 1; 5:User defined 2]	get edid data 0	FROM TX EDID <00 FF FF FF....> Local HDMI EDID <00 FF FF FF....> HDMI output EDID <00 FF FF FF....> User defined 1 EDID <00 FF FF FF....> User defined 2 EDID <00 FF FF FF....>

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Output Setting

No.	Command	Description	Parameters	Example	Feedback
3.1	get output cable	Get output port cable status	N/A	get output cable	HDMI output cable: connected
3.2	get output status	Get output port signal status	N/A	get output status	3840x2160p60Hz_YUV_4:4_4_8bit
3.3	set output hdcp [hdcp]	Set output port HDCP mode	hdcp=[1:Auto (Follow sink); 2:Force HDCP 1.4; 3:Force HDCP 2.2; 4:Signal management] Default: 1	set output hdcp 1	HDMI output HDCP: auto
3.4	get output hdcp	Get output port HDCP mode	N/A	get output hdcp	HDMI output HDCP: auto
3.5	set output video [video]	Set output port video mode	video=[1:Bypass; 2:Internal pattern] Default: 1	set output video 2	HDMI output video: internal pattern
3.6	get output video	Get output port display mode	N/A	get output video	HDMI output video: internal pattern
3.7	set output signal [output]	Set output port signal status	output=[1:On; 2:Off; 3:AVMUTE] Default: 1	set output signal 1	HDMI output signal: on
3.8	get output signal	Get output port signal status	N/A	get output signal	HDMI output signal: on
3.9	set pattern [res] [pattern]	Set internal pattern generator resolution and pattern	res=[1:4K60Hz; 2:4K50Hz; 3:4K25Hz; 4:4K24Hz; 5:1080P60Hz; 6:480P60Hz; 7:576P50Hz] pattern=[1:Black; 2:Checkboard; 3:Strip; 4:Red; 5:Green; 6:Blue; 7:White; 8:Ramp; 9:Red ramp; 10:Green ramp; 11:Blue ramp; 12:PRBS]	set pattern 1 2	Pattern: 4K60Hz checkboard
3.10	get pattern	Get internal pattern generator	N/A	get pattern	Pattern: 4K60Hz checkboard
3.11	set audio [audio] gain [gain]	Set audio output gain	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output; 2:Dante audio output] Analog audio output gain=[0dB~-79dB] Default: 0dB	set audio 0 gain -5	Analog audio gain: -5dB
3.12	get audio [audio] gain	Get audio output(s) gain value	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output]	get audio 0 gain	Analog audio gain: -5dB
3.13	set audio [audio] gain+	Increase audio output(s) gain by 1dB	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output]	set audio 0 gain+	Analog audio gain: -4dB
3.14	set audio [audio] gain+[db]	Increase audio output(s) gain by several dB	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output] db:[Any value within the difference between maximum value and current value]	set audio 0 gain+4	Analog audio gain: 0dB
3.15	set audio [audio] gain-	Decrease audio output(s) gain by 1dB	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output]	set audio 0 gain-	Analog audio gain: -1dB
3.16	set audio [audio] gain-[db]	Decrease audio output(s) gain by several dB	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output] db:[Any value within the difference between current value and minimum value]	set audio 0 gain-4	Analog audio gain: -5dB
3.17	set audio [audio] mute [mute]	Set audio output(s) mute status	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output] mute=[0:Off; 1:On]; Default: 0	set audio 0 mute 1	Analog audio mute: on
3.18	get audio [audio] mute	Get audio output(s) mute status	audio=[0:All audio outputs(except HDMI audio); 1:Analog audio output]	get audio 0 mute	Analog audio mute: on

Network Setting

No.	Command	Description	Parameters	Example	Feedback
4.1	get ipconfig	Get the current IP configuration	N/A	get ipconfig	IP Mode: DHCP IP address: 192.168.62.106 Subnet mask: 255.255.255.0 Gateway: 192.168.62.1 TCP/IP port: 8000 MAC address: 6C:DF:FB:0C:B3:8E (Static: 169.254.100.200 255.255.0.0 169.254.100.1)
4.2	get mac addr	Get network MAC address	N/A	get mac addr	MAC address: 6C:DF:FB:0C:B3:8E
4.3	set ip mode [ipmode]	Set network IP mode to static IP or DHCP (x=0~1)	ipmode=[0:Static; 1:DHCP] Default: 1 Note: DHCP on, device can't config static address, subnet mask and gateway. Please set DHCP off first.	set ip mode 0	IP mode: static (Please use "set net reboot" command to apply new configuration.)
4.4	get ip mode	Get network IP mode	N/A	get ip mode	IP mode: static
4.5	set ip addr [ip]	Set network IP address	ip=[xxx.xxx.xxx.xxx] Default=192.168.0.100	set ip addr 192.168.1.100	IP address: 192.168.1.100 (Please use "set net reboot" command to apply new configuration.)
4.6	get ip addr	Get network IP address	N/A	get ip addr	IP address: 192.168.1.100
4.7	set subnet [mask]	Set network subnet mask	mask=[xxx.xxx.xxx.xxx] Default=255.255.0.0	set subnet 255.255.0.0	Subnet mask: 255.255.0.0 (Please use "set net reboot" command to apply new configuration.)
4.8	get subnet	Get network subnet mask	N/A	get subnet	Subnet mask: 255.255.0.0
4.9	set gateway [gw]	Set network gateway	gw=[xxx.xxx.xxx.xxx] Default=192.168.0.1	set gateway 192.168.1.1	Gateway: 192.168.1.1 (Please use "set net reboot" command to apply new configuration.)
4.10	get gateway	Get network gateway	N/A	get gateway	Gateway: 192.168.1.1
4.11	set tcp/ip port [tcpip]	Set network TCP/IP port	tcpip=[1~65535]	set tcp/ip port 8000	TCP/IP port: 8000
4.12	get tcp/ip port	Get network TCP/IP port	N/A	get tcp/ip port	TCP/IP port: 8000
4.13	set telnet port [telnet]	Set network Telnet port	telnet=[1~65535]	set telnet port 23	Telnet port: 23
4.14	get telnet port	Get network Telnet port	N/A	get telnet port	Telnet port: 23
4.15	set net hostname [hostname]	Set network hostname	hostname= Max 32 characters	set net hostname HE-2150UM-R	Hostname: HE-2150UM-R
4.16	get net hostname	Get network hostname	N/A	get net hostname	Hostname: HE-2150UM-R
4.17	set net reboot	Reboot network modules	N/A	set net reboot	Network reboot...

Password Setting

No.	Command	Description	Parameters	Example	Feedback
5.1	set admin password [admin]	Set admin login password	admin= Max.16 characters	set admin password 1234	Admin password: 1234
5.2	get admin password	Get admin login password	N/A	get admin password	Admin password: 1234
5.3	set user password [user]	Set user login password	user= Max.16 characters	set user password 1234	User password: 1234
5.4	get user password	Get user login password	N/A	get user password	User password: 1234