



Nexus42NEO Command List History

Version	Description	Released Date	Modified by
1.0	First Release	2026-06-18	Hovey Tam

Nexus42NEO Command List (1/3)

ASCII Command

Serial port protocol, Baud rate: 115200, Data bits: 8, Stop bits:1, Check bit: 0

TCP/IP Port: 8000

Power

No.	Command	Description	Parameters
1.1	power on	Power on the device	---
1.2	power off	Power off the device	
1.3	get power	Get current power status	
1.4	reboot	Reboot the device	

Password Setting

No.	Command	Description	Parameters
2.1	set admin password [apwd]	Set admin login password	apwd=Max 16 characters
2.2	get admin password	Get admin login password	upwd=Max 16 characters
2.3	set user password [upwd]	Set user login password	
2.4	get user password	Get user login password	

System Setting

No.	Command	Description	Parameters
3.1	?	Get the list of all commands	btn=[0:Unlocked(Default); 1:Locked]
3.2	help	Get the list of all commands	hdmi=[0:Off; 1:On(Default)]
3.3	status	Get device current status	stbtime=[0:Never; 1:5min(Default); 2:10min; 3:15min; 4:30min; 5: 60min]
3.4	get version	Get firmware version	usbc=[0:All USB-C Input(Default); 1:USB-C input 1; 2:USB-C Input 2]
3.5	reset	Reset system settings to default Note: Type "yes" to confirm, "no" to discard	usbnet=[0:Off; 1:On(Default)] gpio=[0:All GPIOs; 1:GPIO 1; 2:GPIO 2; 3:GPIO 3; 4:GPIO 4]
3.6	reset all	Reset system and network settings to default Note: Type "yes" to confirm, "no" to discard	iolv=[1:Input-Normal High 5V; 2:Input-Normal Low 0V; 3:Output High 5V; 4:Output Low 0V]
3.7	set front button [btn]	Set front button lock	baud=[1:4800; 2:9600; 3:19200; 4:38400; 5:57600; 6:115200(Default)]
3.8	get front button	Get front button lock status	event=[0:Off; 1:On(Default)]
3.9	set hdmi power saving [hdmi]	Set HDMI power saving status	
3.10	get hdmi power saving	Get HDMI power saving status	
3.11	set auto standby time [stbtime]	Set auto standby time when input signal is off	
3.12	get auto standby time	Get auto standby time	
3.13	set usbc [usbc] access network [usbnet]	Set USB-C port access network function	
3.14	get usbc [usbc] access network	Get USB-C port access network function	
3.15	set gpio [gpio] value [iolv]	Set GPIO function and trigger level	
3.16	get gpio [gpio]	Get GPIO function and trigger level	
3.17	set baud [baud]	Set system control RS-232 baud rate	
3.18	get baud	Get system control RS-232 baud rate	
3.19	get temp	Get device internal temperature	
3.20	get uptime	Get device running time	
3.21	set auto event report [event]	Set auto event report status	
3.22	get auto event report	Get auto event report status	

Input Setting

No.	Command	Description	Parameters
4.1	set input [input] name [iname]	Set the input name	input=[1:USB-C IN1; 2:USB-C IN2; 3:HDMI IN3; 4:HDMI IN4]
4.2	get input [in] name	Get the input name	iname=Max 16 characters
4.3	get input [in] connected	Get the input cable connected status	in=[0:All inputs; 1:USB-C IN1; 2:USB-C IN2; 3:HDMI IN3; 4:HDMI IN4]
4.4	set input [in] edid [edid]	Set the input EDID	edid=[1:Auto(HDMI Out 1+HDMI Out 2);
4.5	get input [in] edid	Get the input EDID	2:Copy HDMI Out 1;
4.6	set user edid [uedid] [udata]	Set the user defined EDID	3:Copy HDMI Out 2;
4.7	get edid data [edata]	Get the EDID data	4:4K2K60_444, Audio 2CH PCM;
4.8	set input [in] hdp [inhdp]	Set the input HDCP status	5:4K2K60_444, Audio 5.1CH DTS/DOLBY;
4.9	get input [in] hdp	Get the input HDCP status	6:4K2K60_444, Audio 7.1CH DTS/DOLBY/HD;
			7:4K2K30_444, Audio 2CH PCM;
			8:4K2K30_444, Audio 5.1CH DTS/DOLBY;
			9:4K2K30_444, Audio 7.1CH DTS/DOLBY/HD;
			10:1080P60_444, Audio 2CH PCM;
			11:1080P60_444, Audio 5.1CH DTS/DOLBY;
			12:1080P60_444, Audio 7.1CH DTS/DOLBY/HD;
			13:720P60_444, Audio 2CH PCM;
			14:1920x1200, Audio 2CH PCM
			15:1680x1050, Audio 2CH PCM
			16:1600x1200, Audio 2CH PCM
			17:1440x900, Audio 2CH PCM
			18:1360x768, Audio 2CH PCM
			19:1280x1024, Audio 2CH PCM
			20:1024x768, Audio 2CH PCM
			21:User Defined 1
			22:User Defined 2
			uedid=[1:User defined 1; 2:User defined 2]
			udata=[256 bytes EDID data]
			edata=[1:USB-C IN1; 2:USB-C IN2; 3:HDMI IN3; 4:HDMI IN4;
			5:HDMI OUT1; 6:HDMI OUT2; 7:User defined 1; 8:User defined 2]
			inhdp=[0:Off; 1:On(Default)]

Nexus42NEO Command List (2/3)

Output Setting

No.	Command	Description	Parameters
5.1	set output [output] name [outname]	Set the output name	output=[1:HDMI OUT1; 2:HDMI OUT2] outname=Max 16 characters out=[0:All inputs; 1:HDMI OUT1; 2:HDMI OUT2] outhdcp=[1:Auto-Follow Sink(Default); 2:Force HDCP1.4; 3:Force HDCP2.2; 4:Signal Management] vmode=[1:Auto(Auto downscale to display's capability)(Default); 2:Bypass; 3:Force 1080P; 4:Internal pattern] osignal=[1:On(Default); 2:Off; 3:AVMute(BlackScreen)] patres=[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] welcome=[0:Off; 1:On(Default)] nosig=[0:Off; 1:On(Default)]
5.2	get output [out] name	Get the output name	
5.3	get output [out] connected	Get the output cable connected status	
5.4	set output [out] hdcp [outhdcp]	Set the output HDCP mode	
5.5	get output [out] hdcp	Get the output HDCP mode	
5.6	set output [out] video [vmode]	Set the output Video mode	
5.7	get output [out] video	Get the output Video mode	
5.8	set output [out] signal [osignal]	Set the output Signal status	
5.9	get output [out] signal	Get the output Signal status	
5.10	set pattern [patres] [pattern]	Set the internal pattern output format	
5.11	get pattern	Get the internal pattern output format	
5.12	set welcome screen [welcome]	Set welcome screen status	
5.13	get welcome screen	Get welcome screen status	
5.14	set no signal screen [nosig]	Set no signal screen status	
5.15	get no signal screen	Get no signal screen status	
5.16	set image display	Show welcome screen image	
5.17	set image clear	Turn off welcome screen image	

Video Setting

No.	Command	Description	Parameters
6.1	set output [vout] from [vin]	Set the output from the input	vout=[0:All inputs; 1:HDMI OUT1; 2:HDMI OUT2] vin=[1:USB-C IN1; 2:USB-C IN2; 3:HDMI IN3; 4:HDMI IN4] autosw=[0:Off; 1:On(Default)] swmode=[1:Input signal(Default); 2:Source 5V] fallback=[1:Next input; 2:Previous input; 3:USB-C IN1; 4:USB-C IN2; 5:HDMI IN3; 6:HDMI IN4]
6.2	get output [vout] from	Get the output from which input(s)	
6.3	set output [vout] auto switch [autosw]	Set the output auto switch status	
6.4	get output [vout] auto switch	Get the output auto switch status	
6.5	set output auto switch mode [swmode]	Set the output auto switch detection mode	
6.6	get output auto switch mode	Get the output auto switch detection mode	
6.7	set output [vout] fallback input [fallback]	Set the output's fallback input source	
6.8	get output [vout] fallback input	Get the output's fallback input source	

Audio Setting

No.	Command	Description	Parameters
7.1	set analog audio input [aembed]	Set analog audio input embedded to the input	aembed=[0:Off(Default); 1:USB-C IN1; 2:USB-C IN2; 3:HDMI IN3; 4:HDMI IN4] uastatus=[0:Off(Default); 1:On] aout=[1:HDMI OUT1(Default); 2:HDMI OUT2; 3:USB Audio] gain=[0dB ~ -50dB] (Default: 0dB) incdb=[Any value within the difference between max. value and current value] decdb=[Any value within the difference between current value and min. value] amute=[0:Off(Default); 1:On]
7.2	get analog audio input	Get analog audio input embedded status	
7.3	set analog audio input to usb [uastatus]	Set analog audio input embedded to USB audio status	
7.4	get analog audio input to usb	Get analog audio input embedded to USB audio status	
7.5	set analog audio output [aout]	Set analog audio deembedded from the output	
7.6	get analog audio output	Get analog audio deembedded status	
7.7	set analog audio gain [gain]	Set analog audio gain	
7.8	get analog audio gain	Get analog audio gain value	
7.9	set analog audio gain+ [incdb]	Increase analog audio gain by 1dB	
7.10	set analog audio gain+ [incdb]	Increase analog audio gain by several dB	
7.11	set analog audio gain- [decdb]	Decrease analog audio gain by 1dB	
7.12	set analog audio gain- [decdb]	Decrease analog audio gain by several dB	
7.13	set analog audio mute [amute]	Set analog audio mute status	
7.14	get analog audio mute	Get analog audio mute status	

USB Setting

No.	Command	Description	Parameters
8.1	get usb host [upwr] power	Get USB host power status	upwr=[0:All Hosts; 1:USB-C IN1; 2:USB-C IN2; 3:USB HOST3; 4:USB HOS4] uswmode=[1:Follow video(Default); 2:Manual switch; 3:Auto switch] usbflw=[1:HDMI IN1(Default); 2:HDMI IN2] uin=[1:USB-C IN1; 2:USB-C IN2; 3:USB HOST3; 4:USB HOST4] udev=[0:All USB devices; 1:USB device 1; 2:USB device 2; 3:USB device 3] upwrmode=[1:Follow Host(Default); 2:Force 5V output; 3: Disable 5V output]
8.2	set usb switch mode [uswmode]	Set USB switch mode	
8.3	get usb switch mode	Get USB switch mode	
8.4	set usb follow video [usbflw]	Set USB follow video by the output port	
8.5	get usb follow video	Get USB follow video by which output port	
8.6	set usb manual switch [uin]	Set USB manual switch	
8.7	get usb switch status	Get USB switch status	
8.8	set usb device [udev] power [upwrmode]	Set the USB device's power mode	
8.9	get usb device [udev] power	Get the USB device's power mode	

Display Control

No.	Command	Description	Parameters
9.1	set display [disp] power [dpwr]	Set display power status	disp=[0:All outputs; 1:HDMI OUT1; 2:HDMI OUT2] dpwr=[0:Off; 1:On] dbtn=[0:Off; 1:On(Default)] dauto=[0:Off; 1:On(Default)] ontim=[0~1200sec](Default: 5sec) offtim=[0~1200sec](Default: 5sec) cec=[0:Off; 1:On(Default)] ir=[0:Off(Default); 1:On] rs=[0:Off(Default); 1:On]
9.2	set display [disp] button [dbtn]	Set the display button status	
9.3	get display [disp] button	Get the display button status	
9.4	set display [disp] auto power feature [dauto]	Set the display auto power feature status	
9.5	get display [disp] auto power feature	Get the display auto power feature status	
9.6	set display [disp] auto power on timer [ontim]	Set the display power on timer after startup	
9.7	get display [disp] auto power on timer	Get the display power on timer value	
9.8	set display [disp] auto power off timer [offtim]	Set the display power off timer after shut down	
9.9	get display [disp] auto power off timer	Get the display power on timer value	
9.10	set display [disp] control type [cec][ir][rs]	Set the display power control type status	
9.11	get display [disp] control type	Get the display power control type status	

Nexus42NEO Command List (3/3)

RS-232 Setting

No.	Command	Description	Parameters
10.1	set serial setting [br]-[bit][pari][stop]	Set serial setting	br=[115200(Default); 57600; 56000; 38400; 19200; 9600; 4800; 2400]
10.2	get serial setting	Get serial setting	pari=[n:None(Default); o:Odd; e:Even]
10.3	set serial [fmt] [end] [command]	Set serial general command	stop=[1,2]
10.4	set serial power [pwr] [fmt] [end] <command1> <delay> <command2>	Set serial power on/off control commands	fmt=[HEX; ASCII] end=[Null; CR; LF; CR+LF]
10.5	get serial power [pwr] command	Get serial power on/off control commands	command=RS-232 command pwr=[on; off]
			command1=RS-232 power on/off command
			delay=[0~1200sec]
			command2=RS-232 power on/off command
			Note: [delay] and [command2] can be NULL

IR Setting

No.	Command	Description	Parameters
11.1	set ir power [irpwr]	Set IR power status	irpwr=[On; Off]

CEC Setting

No.	Command	Description	Parameters
12.1	set input [cecin] cec [cincmd]	Send CEC command to the input	cecin=[0:All inputs; 3:HDMI IN3; 4:HDMI IN4]
12.2	set input [cecin] custom cec [custom]	Send custom CEC command to the input	cincmd=[power on; power off; menu; select; up; down; left; right; exit; play; stop; pause; rewind; fast forward; previous; next; volume up; volume down; mute]
12.3	set output [cecout] cec [coutcmd]	Send CEC command to the output	custom=HEX Data
12.4	set output [cecout] custom cec [custom]	Send custom CEC command to the output	cecout=[0:All outputs; 1:HDMI OUT1; 2:HDMI OUT2]
			coutcmd=[power on; power off; active source; image view on; text view on; volume up; volume down; mute]

Preset Setting

No.	Command	Description	Parameters
13.1	set preset save [preset]	Save current settings to the preset Note: All settings except network setting.	preset=[1~5] pname=Max 16 characters
13.2	set preset recall [preset]	Recall the preset	
13.3	set preset clear [preset]	Clear the preset	
13.4	set preset [preset] name [pname]	Set the preset's name	
13.5	get preset [preset] name	Get the preset's name	

Network Setting

No.	Command	Description	Parameters
14.1	get mac addr	Get network MAC address	ipmode=[0:static; 1:DHCP]
14.2	get ipconfig	Get the current IP configuration	**Please use "set net reboot" command or repower device to apply new config.**
14.3	set ip mode [ipmode]	Set network IP mode	ip=[xxx.xxx.xxx.xxx]
14.4	get ip mode	Get network IP mode	mask=[xxx.xxx.xxx.xxx]
14.5	set ip addr [ip]	Set network IP address	gw=[xxx.xxx.xxx.xxx]
14.6	get ip addr	Get network IP address	**Please use "set net reboot" command or repower device to apply new config.**
14.1	set subnet [mask]	Set network subnet mask	**When DHCP is selected, device can't be configured IP, Subnet mask and Gateway. Please set DHCP off first.**
14.8	get subnet	Get network subnet mask	tcp=[0:Off; 1:On(Default)]
14.9	set gateway [gw]	Set network gateway	tcpport=[1-65535](Default:8000)
14.10	get gateway	Get network gateway	telnet=[0:Off; 1:On(Default)]
14.1	set tcp/ip [tcp]	Set network TCP/IP status	telnetport=[1-65535](Default:23)
14.1	get tcp/ip	Get network TCP/IP status	hostname=Max 32 characters
14.1	set tcp/ip port [tcpport]	Set network TCP/IP port	
14.1	get tcp/ip port	Get network TCP/IP port	
14.2	set telnet [telnet]	Set network telnet status	
14.2	get telnet	Get network telnet status	
14.2	set telnet port [telnetport]	Set network telnet port	
14.2	get telnet port	Get network telnet port	
14.2	set net reboot	Reboot network modules	
14.20	set net hostname [hostname]	Set network hostname	
14.2	get net hostname	Get network hostname	
14.2	set net mode x	Set network working mode	
14.2	get net mode	Get network working mode	