

# **SysControl (Network-based Control)**

SysControl allows users to control Novo devices over Ethernet and/or Wi-Fi. Namely, it is based on TCP/IP communication.

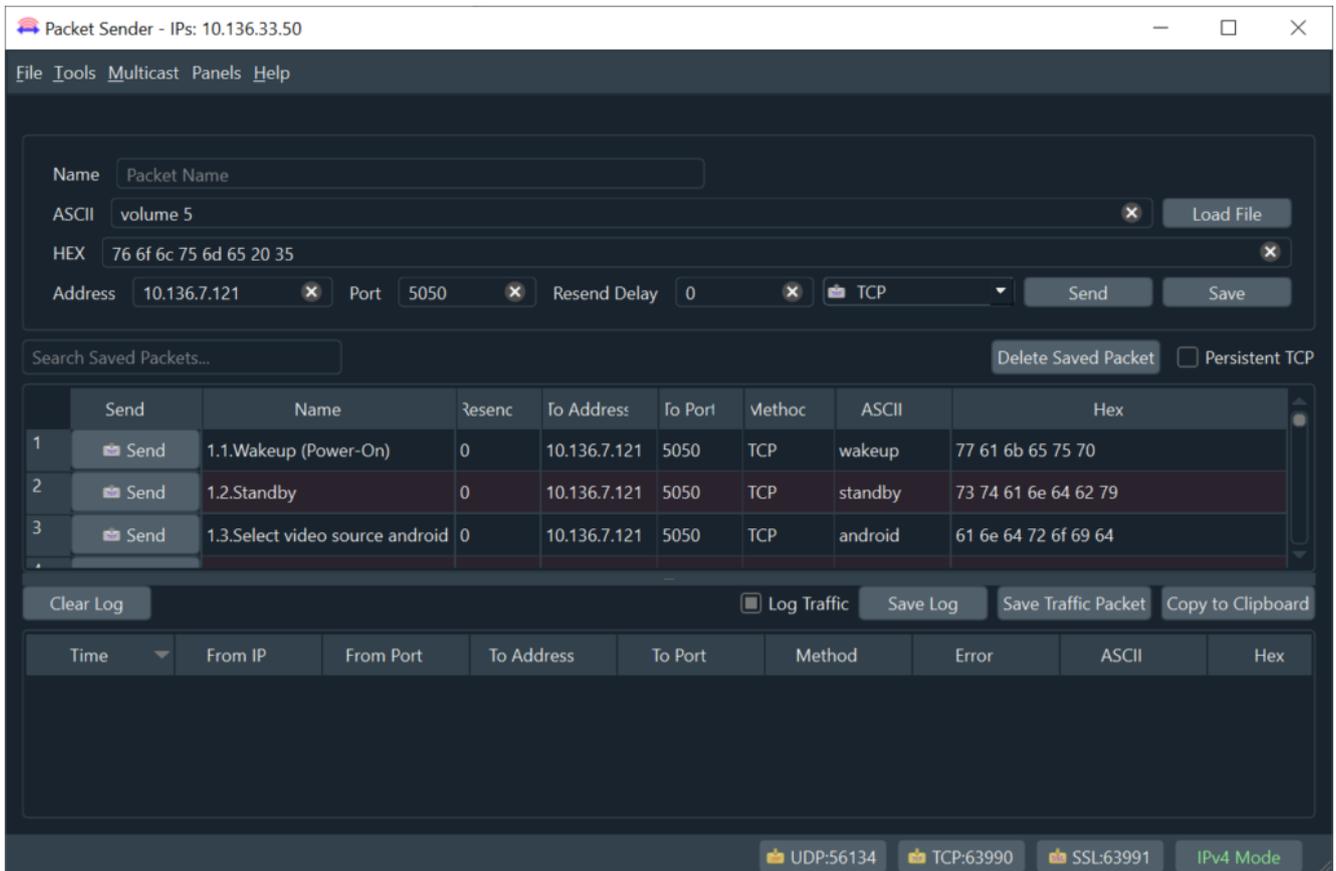
## **(1) Compatible Novo Devices**

Most Novo devices can be controlled via Ethernet or Wi-Fi through TCP connection.

- NovoTouch: EK3, EK5 series, BK2, BK3 series
- NovoDisplay: DK3 series
- NovoDS: Gen-2 series (DS110, DS 210, and DS310)
- NovoConnect: NC-X500, NC-X710, NC-X910

## **(2) Network Connection**

- Connection type: TCP
- Port number: 5050
- Test tool: Packet Sender
  - Available at <https://packetsender.com/download>
  - The following is a screenshot of the test tool.



### (3) Commands

There are two types of commands

- SET Commands: allow users to set parameters on devices
- GET Commands: allow users to retrieve status from devices

#### (3.1) SET Commands

Function	Description	Command (ASCII string)	Remark
<b>Power On</b>	Turn on / Wake up the device	wakeup	
<b>Standby</b>	Set the device entering to idle mode	standby	

<b>Select Video Source</b>	Select a specific video input source, e.g. HDMI-1, VGA, DP, etc.	source hdmi1 source hdmi2 source VGA source android	Not applicable to NovoDS & NovoConnect devices
<b>Set Audio Volume</b>	Set the audio volume value from 0 to 100	volume <value> <i>Example: volume 50</i>	
<b>Mute</b>	Set the audio output mute	mute	
<b>Unmute</b>	Set the audio output unmute	unmute	
<b>Set Backlight Level</b>	set the backligh level from 0 to 100	backlight <value> <i>Example: backlight 60</i>	Not applicable to NovoDS & NovoConnect devices

### (3.2) GET Commands

<b>Function</b>	<b>Description</b>	<b>Command (ASCII string)</b>	<b>Return Value (ASCII string)</b>	<b>Remark</b>
<b>Power Status</b>	Retrieve the power status – power-on or standby	powerstate	standby wakeup	
<b>Video Source Status</b>	Retrieve the current video source	sourcestate	hdmi1 hdmi2 VGA android	Not applicable to NovoDS devices, NovoConnect devices

<b>Audio Volume Status</b>	Retrieve the current value of audio volume	volstate	0~100	
<b>Mute status</b>	Retrieve the mute/unmute status	mutestate	mute/unmute	
<b>Backlight status</b>	Retrieve the current backlight level	blstate	0~100	Not applicable to NovoDS devices, NovoConnect devices
<b>Query model name</b>	Retrieve the device model name	query	device model name <i>Example: EK3 75"</i> <i>Model name is NT-C3000-WFS0750</i>	

### (3.3) Digital Signage commands

Commands in this section are ONLY applicable to following models

- NovoDS Gen-2 devices (DS110, DS210, and DS310)

**Note:**

- *To simplify the user interactions, each playlist (on the device) is designated with a number, such as "1", "2", "3", etc. We call this "Playlist Number".*

Function	Description	Command (ASCII string)	Return Value (ASCII string)
Play	Play a playlist if you already know its playlist number.	play <playlist number>	If the "playlist number" is invalid, message "Can't get playlist, please check again." will return.
Interactive Play	If you don't know the playlist number ahead of time, use this command to find out and then start the playback.	<i>Step 1: Enter "play". A list of playlist numbers and the corresponding playlist names will return. Step 2: Enter the desired playlist number. This will start the playback.</i>	If the "playlist number" is invalid, message "Can't get playlist, please check again." will return.
Stop	Stop the playback	stop	
GetList	Retrieve the list of playlists on the device	getlist	A list of playlist numbers and the corresponding playlist names