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.
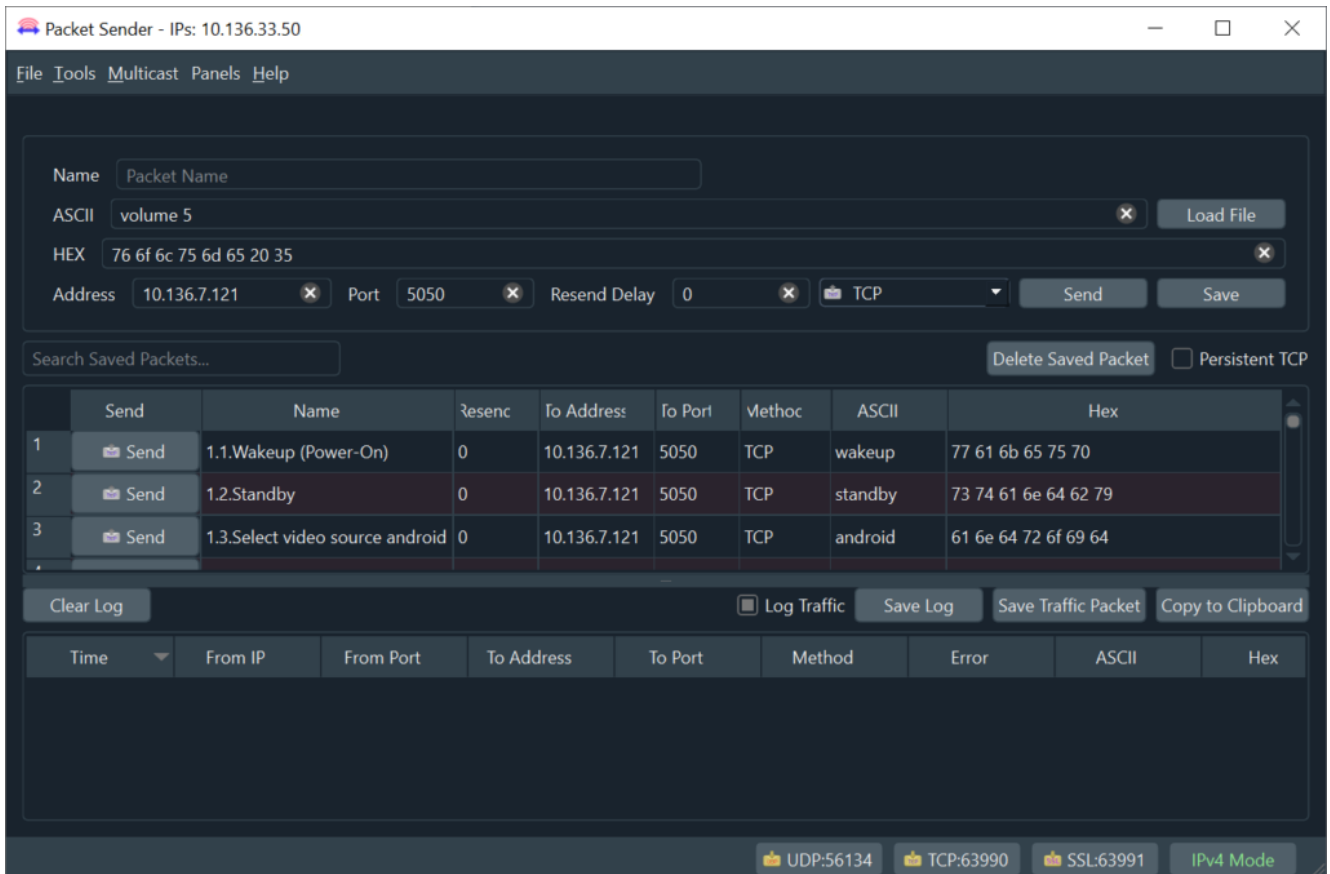
(1) Compatible Novo Devices

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

- NovoTouch: EK3 series, BK2 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
Power On	Turn on / Wake up the device	wakeup	
Standby	Set the device entering to idle mode	standby	

Select Video Source	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
Set Audio Volume	Set the audio volume value from 0 to 100	volume \<value\> *Example: volume 50*	
Mute	Set the audio output mute	mute	
Unmute	Set the audio output unmute	unmute	
Set Backlight Level	set the backligh level from 0 to 100	backlight \<value\> *Example: backlight 60*	Not applicable to NovoDS & NovoConnect devices

(3.2) GET Commands

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

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

(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.	*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.*	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