lightSTUDIO-S CLI Command Line Interface

User Manual

November 14, 2016

CONTENT

1 INTRODUCTION

This document describes the Command Line Interface (CLI) and the commands available for the lightSTUDIO-S device.

To send a command to the device, please run the CLI executable file with the required commands and their parameters. Command recognition starts with double dash characters (--). Parameters can be passed using the assignment operator (=) or whitespace.

lightSTUDIO-S_CLI.exe --<command> <parameter>
lightSTUDIO-S_CLI.exe --<command>=<parameter>

Please note that some operations might need more than only one command to be sent. For example:

lightSTUDIO-S_CLI.exe --channel 1 --setIntensity 42
Set the intensity for channel 1 to 42%.

If there are multiple lightSTUDIO-S devices connected, you can specify the target device using its serial number:

lightSTUDIO-S_CLI.exe --serial=00400 --channel=2 --getDefaultIntensity
Return the default intensity value for channel 2 of the device with the serial number 00400.

2 RETURN VALUES

When execution is complete, the CLI program file returns a status value indicating how the program exited. Normal exit is represented by a 0 return value, while negative numbers represent abnormal terminations.

Return values:
0	OK
-1	No connected lightSTUDIO-S device was found.
-2	No connected lightSTUDIO-S device with the specified serial number was found.
-3	USB communication failed.
-4	Invalid parameter.

3 AVAILABLE CHANNELS

Some commands require a mandatory specification of the target channel (illuminant). The following channels are available in the lightSTUDIO-S device:

Channel	Illuminant	Default intensity [%]
1	F12	100
2	F11	100
3	D50	100
4	D65	100
5	Halogen (10 lux)	2
6	Halogen (100 lux)	25
7	Halogen (400 lux)	100
8	Halogen with a blue color conversion filter (400 lux)	100

4 AVAILABLE COMMANDS

4.1 GENERAL COMMANDS

lightSTUDIO-S_CLI.exe --help
Display help text, including a list of available commands and parameters.

lightSTUDIO-S_CLI.exe --version
Display the program version of the CLI software.

lightSTUDIO-S_CLI.exe --serial <serial number> […]
If multiple lightSTUDIO-S devices are connected, execute the following command(s) on the device with the given serial number. The serial number is printed on the type plate found on your device.

4.2 SET INTENSITY

Set the intensity for a given channel. Intensity values are given in percent [0...100]. The target channel must be specified using **--channel <channel number>**. Setting the intensity to 0 turns the light off.

lightSTUDIO-S_CLI.exe --channel 1 --setIntensity 42
Set the intensity for channel 1 to 42%.

This command can be used to switch the channels (illuminants) programmatically instead of using the device's control panel.

4.3 GET INTENSITY

Return the intensity value of the currently selected channel. The intensity values are given in percent [0…100]. Please note that specifying a channel does not work for this function. The command will always return the value for the current channel.

lightSTUDIO-S_CLI.exe --getIntensity

4.4 SET CHANNEL

Switch on a given channel with its default intensity. See section 3, "Available channels."

lightSTUDIO-S_CLI.exe --setChannel 2
Set the intensity for channel 2 to its default value (100%).

4.5 GET CHANNEL

Return the number of the currently selected channel.

lightSTUDIO-S_CLI.exe --getChannel

4.6 SET DEFAULT INTENSITY

Set default intensity for a given channel. Intensity values are given in percent [0...100]. The target channel must be specified using **--channel <channel number>**.

The default intensity value is used when you start your lightSTUDIO-S device (e.g., using the hardware control panel) and select a channel. These values are permanently stored in the hardware for each channel. They will affect the functionality of your lightSTUDIO-S even if you only use the hardware control panel of your device. When using this command, old default values will be overwritten.

lightSTUDIO-S_CLI.exe --channel 1 --setDefaultIntensity 42

Please note that we do not recommend changing default intensities for channels 5 through 8. These channels correspond to the different halogen presets on the hardware control panel. When the default intensity values for these channels are changed, they will not correspond to the declared illuminance values of 10, 100, or 400 lux.

You will find the list with the default intensities for each channel in section 3, "Available channels."

4.7 GET DEFAULT INTENSITY

Return the default intensity value for the given channel. The intensity values are given in percent [0…100]. The target channel must be specified using **--channel <channel number>**.

lightSTUDIO-S_CLI.exe --channel 1 --getDefaultIntensity
Return the default intensity for channel 1.