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THORLABS DC2200 High Power 1 Channel LED Driver User Manual

Contents

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Product Information

- The Thorlabs DC2200 Firmware is a device internal program designed for DC2200 instruments. It provides essential functionality and updates for optimal performance.
- To ensure proper installation and usage, please consult the user's manual for detailed instructions.

Product Usage Instructions

1. Ensure you have the necessary software for firmware upload: Thorlabs Device Firmware Upgrade Wizard.
2. Download and install the Thorlabs Device Firmware Upgrade Wizard if you haven't already.
3. Connect the DC2200 instrument to your computer using the appropriate interface (e.g., USB).
4. Launch the Thorlabs Device Firmware Upgrade Wizard.
5. Follow the on-screen instructions provided by the wizard to initiate the firmware upgrade process.
6. Select the appropriate firmware file for the DC2200 instrument (e.g., V1.4.0).
7. Confirm the upgrade and wait for the firmware to be uploaded to the instrument.
8. Once the process is complete, disconnect the DC2200 instrument from your computer.

By following these instructions, you can ensure that your DC2200 instrument is running the latest firmware version and benefiting from any improvements or bug fixes provided by Thorlabs.

Thorlabs DC2200 Firmware – Changelog

This firmware is a device internal program for DC2200 instruments. For installation instructions please consult the user's manual.

- **Software needed for upload:**

Thorlabs Device Firmware Upgrade Wizard

Change log

- **Nov-19-2021 V1.4.0**
  - Added support for Thorlabs LEDs with DS28E07 1-Wire EEPROM family.
- **Aug-24-2020 V1.3.0**
  - Avoids internal modulation sometime did not start after operating mode change or stops at new frequency value set (LED always on at middle value) – solved in FPGA.
- **Apr-06-2018 V1.2.0**
  - Avoids firmware hang-up in some special cases.
- **Nov-14-2017 V1.1.10**
  - Default value of feature "Switch LED on when starting device" set to OFF.
  - Minimum "User Current Limit" increased from 0.0 mA (that makes no sense) to 1.0 mA to avoid that no "LED Current" value is displayed at 0.0 mA limit.
- **Oct-23-2017 V1.1.9**
  - Avoids blocking touch screen at starting device with enabled feature "Switch LED on when starting device" at open interlock.
- **Oct-19-2017 V1.1.8**
  - Remote commands for reading PRM-current, PRM-voltage, LED-temperature, PRM-temperature, VTM-temperature and Console-Heat-Sink temperature set into operation.
- **Oct-12-2017 V1.0.15**
  - Feature "Switch LED on when starting device" added in SYSTEM SETTINGS II panel.
- **Apr-11-2017 V1.0.14**
  - Issues with forward voltage at remote command *RST fixed.
- **Jul-06-2016 V1.0.13**
  - Avoids LED output voltage protection after changing operating mode or increasing current setpoint.
- **Jul-04-2016 V1.0.12**
  - Button MEAS HEAD added to LED SETTINGS panel if TEST HEAD fails (only for non-Thorlabs-LED's without an EEPROM connected) due to too low forward voltage measured for an LED. The function drives different currents up to the "User Current Limit" and measures the resulting voltage and sets the maximum forward voltage respectively. This makes it possible to operate e.g. halogen lamps.
  - Default external fan voltage increased from 8 V to 12 V.
  - External fan voltage can be set from 6 V to 13 V with an resolution of 0.1 V and an accuracy of 0.5 V in SYSTEM SETTINGS II panel.
  - In PWM- and PULSE-mode maximum possible counts increased from 1000 to 100000.
- **Jul-29-2015 V1.0.1**
  - Initial release with full functionality.

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