iQ-LED Control Software

Quick Start Guide
V 3.0.0 and higher
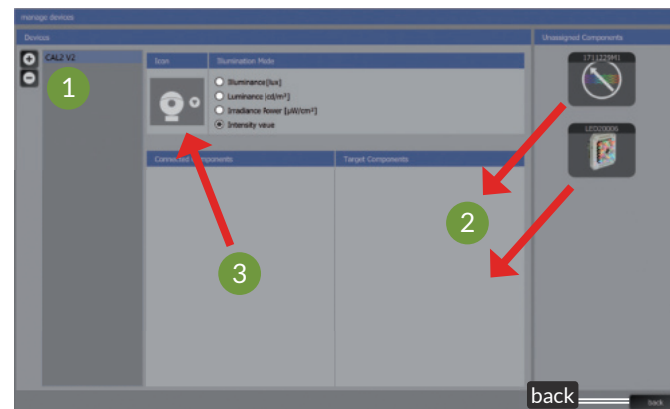

Image Engineering GmbH & Co. KG

1. Getting Started

Connect the iQ-LED device with the included spectrometer via USB to your computer and start the "iQ-LED Control" software.
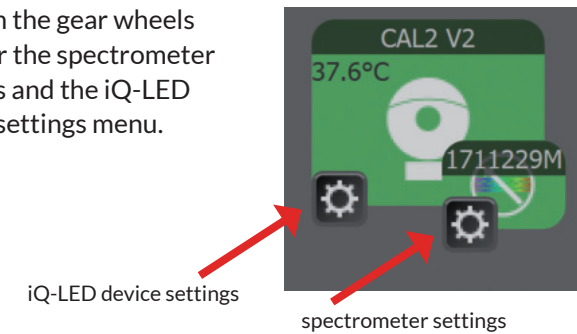

iQ-LED Devices

Select the gear wheels in the iQ-LED device section to open the device setting menu.
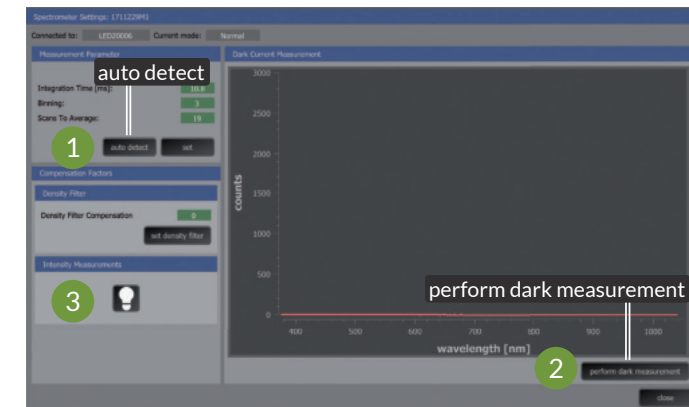

back

Create a new device by clicking on "+" (1) and then add the required components per drag and drop (2). Rename the device by selecting the preset name. Choose the device icon corresponding to your device (3). Click "back" to return to the main surface.

2. Calibration

Click on the gear wheels to enter the spectrometer settings and the iQ-LED device settings menu.
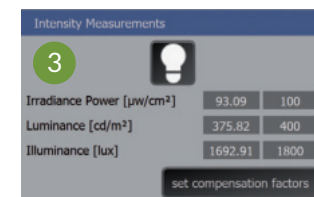

iQ-LED device settings

spectrometer settings

First step – spectrometer settings:

auto detect

perform dark measurement

Press the auto detect button to set the spectrometer setting (1). Put your device in a dark environment and perform a dark measurement (2).

Turn on the calibration light via the bulb button and set compensation factors (3). These values are stated in the user factory calibration report of your device.

Irradiance Power [µw/cm²]	93.09	100
Luminance [cd/m²]	375.82	400
Illuminance [lux]	1692.91	1800

set compensation factors

! Notice: when setting the illuminance calibration factor for the LE7, a chart must not be installed.

Second step – iQ-LED device settings:
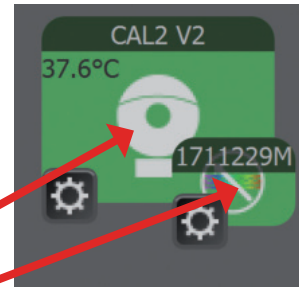

Start Warm Up

1. Start warmup if operating temperature of 38°C (for iQ-LED V2) is not reached **(1)**.

2. Before the first use, please perform a spectral calibration. To start the calibration, press the "+" button **(2)**. It is important that no ambient light enters the device during calibration. Please wait until the calibration process is finished before proceeding.
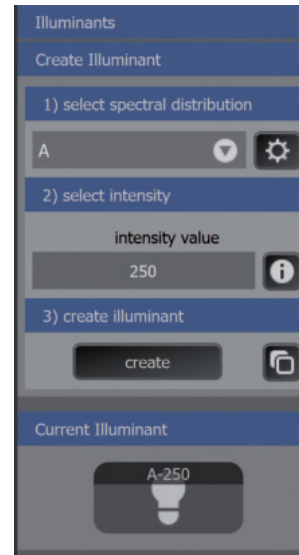
3. Predefined Illuminants/Store on Device

Click on the iQ-LED device and spectrometer to activate your device and the spectral measurement. The background color of an active device will turn to green.
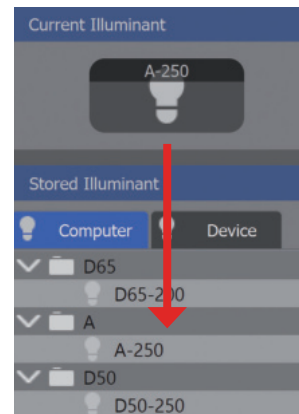

iQ-LED device
spectrometer

1. Select the desired illuminant via the pull-down menu.

2. The "i"-button calculates the possible maximal illuminance of the spectrum. Type in the desired intensity.

3. Click on "create" or press enter to generate the illuminant.

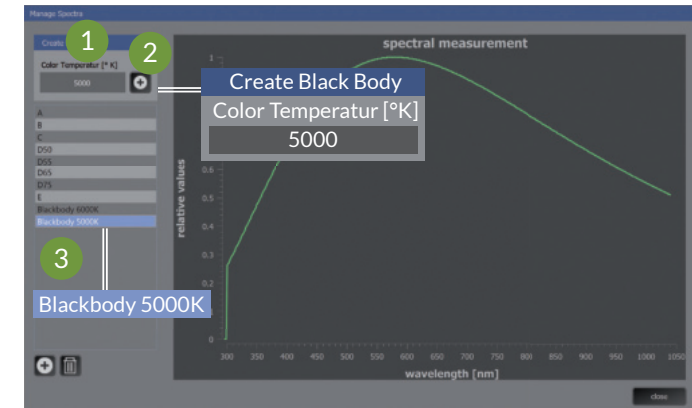4. You can save your illuminant by dragging it into the "Stored Illuminants" section.

5. You can select different illuminants while pressing the Strg-button. Right-click to store them on the device.

4. Creating Illuminants

Open the "Manage Spectra" section via the gear wheels button in the "Create Illuminant" section. Create a black body radiator reference by setting the required color temperature **(1)**, add the illuminant to the list with the "+" button **(2)**.

Create Black Body
Color Temperatur [°K]
5000

Blackbody 5000K

The "Manage Spectra" menu also gives you the possibility to manage your measurements and rename your reference spectra **(3)**.

All reference spectra of the list will be shown in the "Create Illuminant" menu in the main window and can be generated as described before.

For a detailed description and usage of the whole range of functionality of the iQ-LED control software, please read the iQ-LED software user manual.

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