

# smart-chart 8.5.1

Released October 2023

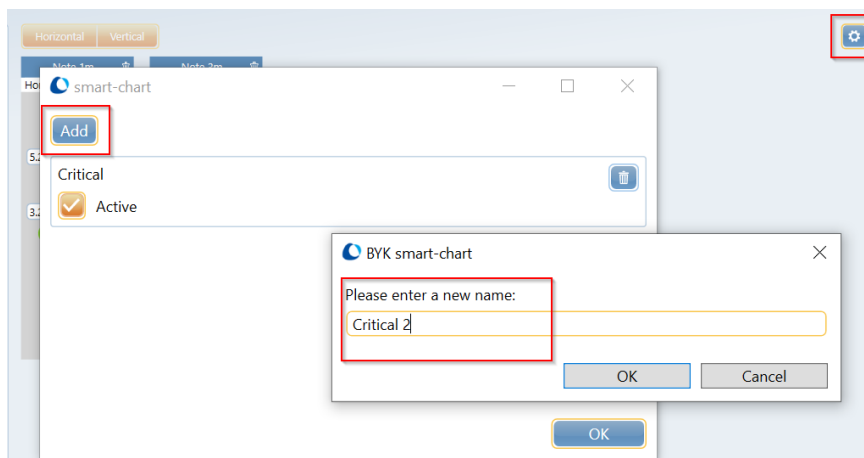
## What's new?

- Appearance instruments: Additional tolerance groups besides Horizontal & Vertical
- Optimized appearance scale: JLR\_OP
- Color instruments: New LED illuminants as defined in CIE 015:2018
- Additional special characters for naming
- Automatic check for smart-chart update
- New function in Instrument Management: "Delete all organizers."
- New firmware for BYK-maci, spectro2guide, color2view, spectro2profiler, wave-scan 3, wave-scan II, micro-wave-scan

## Additional tolerance groups besides Horizontal & Vertical

For *wave-scan*, *cloud-runner* and *micro-gloss* additional tolerance groups can be defined in **Standard Management**. Up to 6 (including the default groups Horizontal & Vertical) can be activated per standard.

The activated tolerance groups can be selected when creating a new check zone in the **Organizer** module.



All activated tolerance groups are displayed on top of the data table in **Data Analysis**. They are also available in the blue grouping field **Tolerance Group** for **Scorecard and Trend**.



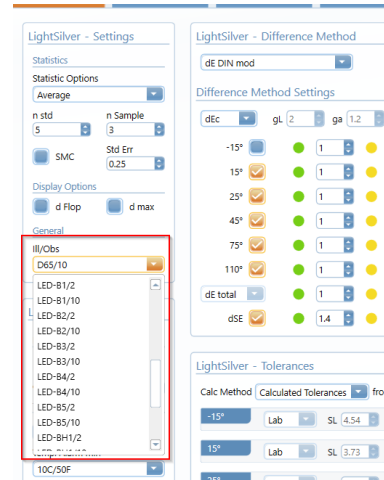
### Optimized appearance scale: JLR\_OP

Calculation for JLR appearance scale JLR\_OP was optimized.

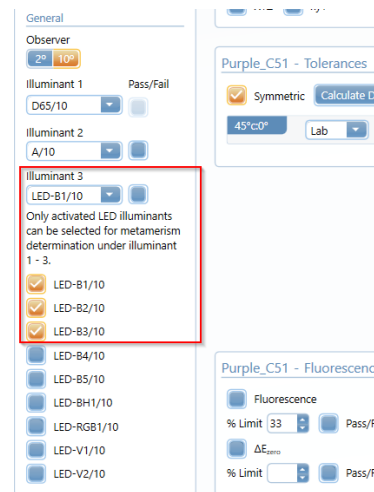
### New LED illuminants as defined in CIE 015:2018

The world of lighting is changing. Due to ecological reasons, LEDs are replacing more and more conventional light sources. Therefore, nine typical LED lamps were defined by the CIE with their SPDs. These new illuminants are now also included in smart-chart for *BYK-mac i*, *spectro2guide*, *color2view* and *spectro2profiler*.

*BYK-mac i* and *spectro2profiler*: The LED illuminants can be selected from the drop-down list in Standard Management.



*spectro2guide* and *color2view*: Maximum 6 LED illuminants can be activated to be available for metamerism determination. In case they are added to a fluorescent standard, this standard must be remeasured to display color values for the LED illuminants. This is because both instruments store separate spectral data for each illuminant on fluorescent standards.



### Additional special characters for naming

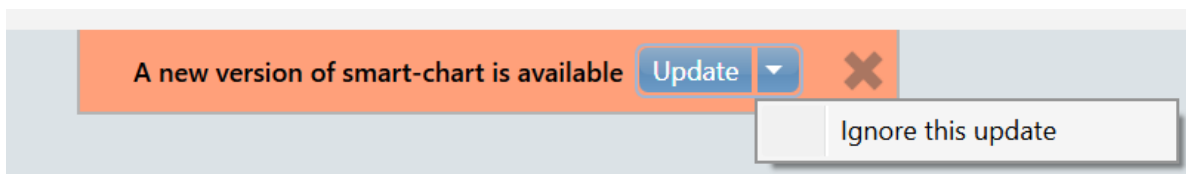
Besides alphanumerical characters the following special characters can be used:

!#\$%()'\*,.-/:;=?@[]^\_{}~.

They can also be sent to all BYK-Gardner instruments.

### Automatic check for smart-chart update

Whenever a newer version of smart-chart is available on the BYK-Gardner website, an automatic message is displayed when starting smart-chart. Prerequisite is that the computer is connected to the internet. By clicking on "Update" the user is directly redirected to the BYK-Gardner website. By clicking on the "Arrow down" the update can be ignored.



**Bug Fixes:**

- spectro2go: Transfer of standards with spectral data is possible.

**Improvements:**

- Color equations: Graininess scaling factor for  $\Delta E_{\text{Audi}}$  was added
- smart-lab Haze: Function "Collapse all" was added

**New Firmware included with smart-chart 8.5.1**

To support the new smart-chart functions, also new firmware versions are needed.

**BYK-mac i: Version 9.89**

- New LED illuminants as defined in CIE 015:2018

**spectro2guide: Version 2.5.0.26121**

- New LED illuminants as defined in CIE 015:2018
- Operate button can be used to perform calibration & auto diagnosis
- XYZ values are displayed with up to 4 decimal places

**color2view: Version 2.3.0.26126**

- New LED illuminants as defined in CIE 015:2018
- Operate button can be used to perform calibration & auto diagnosis
- XYZ values are displayed with up to 4 decimal places

**spectro2profiler: Version 1.5.0.24934**

- New LED illuminants as defined in CIE 015:2018
- Operate button can be used to perform calibration & auto diagnosis
- Gloss value is displayed in Scatter Plot
- Calibration & Auto Diagnosis can be performed by external software

**wave-scan 3: Version 1.4.0.24757**

- Support of 4 additional tolerance groups besides Horizontal & Vertical
- Optimized calculation for JLR\_OP
- Organizer: Possibility to delete multiple checkzones

**wave-scan II / dual: Version 5.81**

- Optimized calculation for JLR\_OP

**micro-wave-scan: Version 5.81**

- Optimized calculation for JLR\_OP