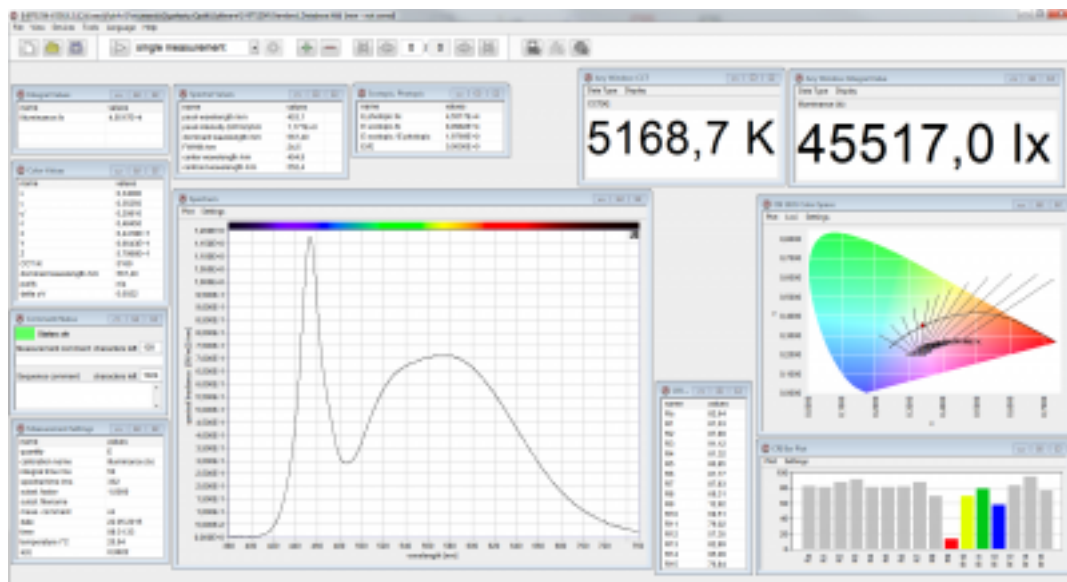


# S-BTS256

<http://www.gigahertz-optik.de/en-us/product/S-BTS256>

Product tags:



# Description

The software allows the full control of the device settings like integration time, measurement settings, mathematical corrections, evaluations, etc.

## Several numerical and graphical displays

The S-BTS256 software contains several numerical and graphical displays for visualization of your measured data. These displays are user selected from the view menu and can be positioned anywhere within the application window. Each individual display arrangement can be stored and reloaded. Furthermore two different color schemes are offered, normal and dark room mode with darker background to prevent stray light from the display from reach the detector.

Numerical windows:

- spectral values
- color values
- CRI (color rendering index)
- CQS
- intensity and set-up parameters
- comment/status
- measurement settings
- integral values
- TM-30-15
- etc.

Graphic windows:

- spectral plot
- CIE 1931 Chromaticity Diagrams
- CIE 1976 Chromaticity Diagrams
- polar plot 2D by goniometer measurements
- polar plot 3D by goniometer measurements
- datalogger
- CRI (color rendering index)
- CQS
- TM-30-15
- $L^*a^*b^*$
- etc.

## Binning classification

For LED binning additional graphic layers can be shown within the CIE 1931 diagram like the Planckian locus, ANSI or MacAdam Ellipsen. These graphical layers can be used to classify your test samples. Additional layers can be defined by each user individually.

## External devices

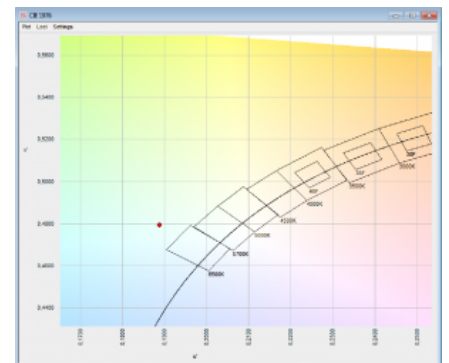
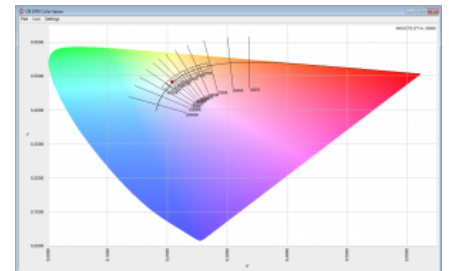
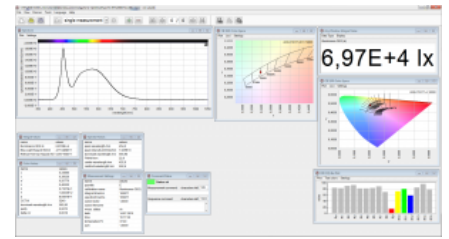
In addition devices like power supplies or goniometers can be controlled with the S-BTS256. As well external devices like a Keithley 2400.

## Self-Absorption Correction (Substitution correction)

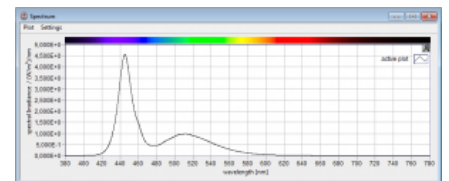
The self-absorption correction (often substitution correction called) set-up screen in the S-BTS2048 software prompts the end-user through the self-absorption correction routine for the BTS2048 light meter with an optional integrating sphere. The routine includes automatic control of the integrating sphere auxiliary lamp and Gigahertz-Optik power supply if supplied.

## Re-calibration

In the S-BTS256 software a re-calibration routine is implemented to perform re-calibrations with optional calibration equipment of Gigahertz-Optik very easy.



CIE 1976

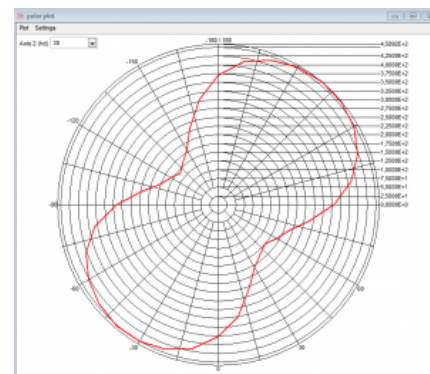


spectral plot

**Data Export to common file formats** Data can be exported in different formats (IES, Eulumdat, ASCII, Microsoft Excel)

IES format (only with goniometer): IES stands for Illuminating Engineering Society. IES standard file format was created for the electronic transfer of photometric data. It has been widely used by many lighting manufacturers and is one of the industry standards in photometric data distribution.

EULUMDAT format (only with goniometer): EULUMDAT is a format for electronic transfer of photometric data. The typical file extension is "\*.ldt". The format was created 1990 and is a de facto standard in European industry.



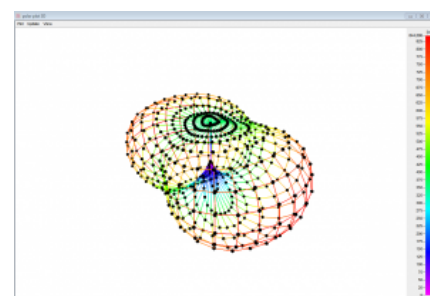
2D Polar Plot

## Database

The S-BTS256 is based on a database architecture, this allows the handling of a large number of measurements. Furthermore datasets can be easily saved, loaded and exported.

## Extension tools

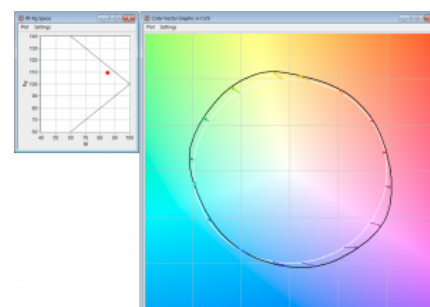
The software can be extended by tools like a user control management, automatic complex measurement sequences, etc. Furthermore customized tools can be developed and integrated.



3D Plot

## Report Generation

Based on the database an export of measurement data to an Microsoft Word file is provided. The data which is exported is customizable by the user.



TM-30-15









## Specifications

### General

#### System requirements

- Minimum HDD space: 300MB, more space is needed when performing large measurement sequences
- Minimum RAM required: 2 GB , recommended 4 GB or more
- Processor: recommended 2 GHz or more
- Operating System: Windows XP, Windows 7 32-bit, Windows 7 64-bit, Windows 10 32-bit, Windows 10 64-bit
- minimum monitor resolution: 800 x 600 pixel, recommended 1600 x 900 pixel or more
- communication: USB-port

## Configurable with

Produktname	Product Image	Description	Show product
BTS256-LED		<p>Compact Bi-Tec measurement device for the measurement of total luminous flux of single LEDs.</p> <p>Features: Cone-shaped measurement port with implemented integrating sphere, auxiliary lamp for substitution correction, spectral radiant power, color temperature, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED">http://www.gigahertz-optik.de/en-us/product/BTS256-LED</a>
BTS256-LED-DA		<p>Compact Bi-Tec measurement device for the measurement of illuminance and luminous flux.</p> <p>Features: Bajonett adapter with diffusor for the BTS256-LED, +/- 30° cosine corrected field of view, spectral radiant power, color temperature, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-DA">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-DA</a>
BTS256-LED-IB		<p>Compact Bi-Tec measurement device for the measurement of ILED-B.</p> <p>Features: Bajonett adapter with ILED-B geometry according CIE 127, spectral data, color temperature, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-IB">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-IB</a>
ISD-21-BTS256-LED		<p>System for the luminous flux and light color measurement of individual 2π light emitting diodes up to 63.5mm.</p> <p>Features: Integrating sphere with 21 cm diameter and auxiliary lamp, compact spectral light meter with Bi-Tec sensor for accurate measurement of the luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-21">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-21</a>
ISD-50-BTS256-LED		<p>System for the luminous flux and light color measurement of individual 2π light emitting diodes up to 100mm.</p> <p>Features: Integrating sphere with 50cm diameter and auxiliary lamp, compact spectral light meter with Bi-Tec sensor for accurate measurement of the luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-50-V01">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-50-V01</a>
ISD-50HF-BTS256-LED		<p>System for the luminous flux measurement of 4π (optional 2π and 4π) light fixtures inside a sphere.</p> <p>Features: Integrating sphere with 50cm hemispherical shell for opening and closing and auxiliary lamps. Light meter with Bi-Technology sensor for accurate measurement of luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/ISD-50HF-BTS256-LED">http://www.gigahertz-optik.de/en-us/product/ISD-50HF-BTS256-LED</a>
ISD-100HF-BTS256-LED		<p>System for the luminous flux measurement of 2π and 4π light fixtures inside a sphere.</p> <p>Features: Integrating sphere with a 1000 mm diameter, hemispherical shell for opening and closing, auxiliary lamp. Light meter for accurate measurement of luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, User software, etc. Options: quadripole test sockets.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-100HF-V01">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-100HF-V01</a>
ISD-100HF-V02-BTS256-LED		<p>System for the luminous flux measurement of 2π and 4π light fixtures inside a sphere.</p> <p>Features: Integrating sphere with a 1000 mm diameter, extra measurement ports for 2π luminaires with diameters of up to 254mm and auxiliary lamp. Light meter for accurate measurement of luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, User software, etc.</p>	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-100HF-V02">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-ISD-100HF-V02</a>

Produktname	Product Image	Description	Show product
GB-GD-360-RB40-2-BT S256-LED		Goniometersystem for the luminous flux and light color measurement of individual $2\pi$ light emitting diodes with an adjustable measurement distance up to 2000mm.  Features: Goniometer, compact spectral light meter with Bi-Tec sensor for accurate measurement of the luminous flux, spectral radiant power, CCT, CRI, chromaticity coordinates, IES, EULUMDAT, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-LED-GB-GD-360-RB40-2">http://www.gigahertz-optik.de/en-us/product/BTS256-LED-GB-GD-360-RB40-2</a>
BTS256-E		Mobile meter for the measurement of illuminance and light color.  Features: Mobile meter, datalogger, splash-proof, spectral irradiance, photopic, scotopic and melanopic illuminance, spectral irradiance, CCT, CRI, color coordinates, Option: WiFi, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-E">http://www.gigahertz-optik.de/en-us/product/BTS256-E</a>
BTS256-E WiFi		Mobile meter for the measurement of illuminance and light color.  Features: WiFi, Mobile meter, datalogger, splash-proof, spectral irradiance, phot. and scot. illuminance, spectral irradiance, CCT, CRI, color coordinates, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-E-WiFi">http://www.gigahertz-optik.de/en-us/product/BTS256-E-WiFi</a>
BTS256-EF		Mobile meter for the measurement of illuminance, light color and flicker measurement.  Features: Mobile meter, datalogger, splash-proof, Flicker measurement, spectral irradiance, photopic, scotopic and melanopic illuminance, spectral irradiance, CCT, CRI, color coordinates, Option: WiFi, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-EF">http://www.gigahertz-optik.de/en-us/product/BTS256-EF</a>
BTS256-EF WiFi		Mobile meter for the measurement of illuminance, light color and flicker measurement.  Features: WiFi, Mobile meter, datalogger, splash-proof, Flicker measurement, spectral irradiance, phot. and scot. illuminance, spectral irradiance, CCT, CRI, color coordinates, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-EF-WiFi">http://www.gigahertz-optik.de/en-us/product/BTS256-EF-WiFi</a>
BTS256-PAR		Mobile meter for the measurement of the photosynthetically active PAR irradiance.  Features: Mobile meter, datalogger, splash-proof, measurement PAR, actinic spectra by the user, additional measurements: phot. and scot. illuminance, spectral irradiance, CCT, CRI, color coordinates, option: WiFi, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-PAR">http://www.gigahertz-optik.de/en-us/product/BTS256-PAR</a>
BTS256-PAR WiFi		Mobile meter for the measurement of the photosynthetically active PAR irradiance.  Features: WiFi, mobile meter, datalogger, splash-proof, measurement of photosynthetically active PAR irradiance, further actinic spectra can be defined by the user, additional measurements: phot. and scot. illuminance, spectral irradiance, color temperature, CRI, color coordinates, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-PAR-WiFi">http://www.gigahertz-optik.de/en-us/product/BTS256-PAR-WiFi</a>
BTS256-HI		Compact Bi-Tec measurement device for the measurement of dental polymerization lamps and cold light sources.  Features: Measurement window with implemented integrating sphere, spectral radiant power, color temperature, CRI, chromaticity coordinates, etc.	<a href="http://www.gigahertz-optik.de/en-us/product/BTS256-HI">http://www.gigahertz-optik.de/en-us/product/BTS256-HI</a>

## Purchasing information

<b>Article-Nr</b>	<b>Modell</b>	<b>Description</b>
<b>Software</b>		
15298108	S-BTS256	User software for BTS256 and variants.