

basI CColor®

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DISCUS

**MADE TO MEASURE**

data sheet - basI CColor DISCUS

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basI CColor  
... because it simply works!

[www.basI CColor.de](http://www.basI CColor.de)



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# DISCUS

## Made To Measure!



Monitor technologie has experienced a rapid development lately and now demands much more from a measurement instrument than before. Video, cinema, presentation, medical applications... require monitor instruments with highest precision, signal to noise ratio and longevity.

basICColor DISCUS is made to measure for these demanding fields of application. The high-end colorimeter basICColor DISCUS offers the precision and flexibility of a lab-grade instrument in the compact design of a hand-held instrument.

- The encapsulated optics and the thin-film glass filters of the sensor guarantee for long term stability of the measurement values. Each instrument is calibrated individually and can be recertified over and over. This ensures that you can use basICColor DISCUS perpetually as a dependable master tool and a reference instrument.
- The built-in temperature sensor in basICColor DISCUS compensates for incremental heating during a measurement session. Thus you can be sure to get reliable and constant measurement values even in the critical dark areas.
- With a basICColor DISCUS you are equipped for all measurement tasks. It masters contact and tele measurement with laser pointer, as well as measurement of (ambient) light. Thanks to the intelligent design, the flat calotte is mounted in parallel with the paper surface. It can also be positioned rectangularly to the light source with the help of the laser pointer.
- Up to 128 loadable calibrations make for a guaranteed future – basICColor DISCUS is easily adaptable to any display technology.

Please refer to the price list on [www.basICColor.de](http://www.basICColor.de)

## Features:

- ▶ Measure modes: Contact, tele and (ambient) light measurement
- ▶ Optical design: Highly sensitive colorimetric sensor with long-term stable thin-film glass filters, (Glasfilter), elaborate optical path for a large measure spot even in contact measurement
- ▶ Aperture angle in contact- and tele measurement: +/- 2°
- ▶ Measure spot in contact:  $\varnothing$  ca. 7 mm
- ▶ Measure spot in tele, distance 1m:  $\varnothing$  ca. 7 cm
- ▶ Measure spot in tele, distance 10m:  $\varnothing$  ca. 70 cm
- ▶ Filter wheel with 3 positions: Tele- and contact measurement with filter thread for (lens hood, filter,...); integrated flat calotte for light measurement (Aperture angle: 180°); calibration position and protection for optics and laser pointer
- ▶ Contact measurement: Mounting suspension with tape measure
- ▶ Tele measurement: 3/8" tripod socket, laserpointer, tape measure
- ▶ Light measurement: 3/8" tripod socket, laserpointer, coplanar unibody housing for measurement of lighting (lightbox, copy holder for proof prints, print control station...), flat calotte coplanar with paper surface at a distance of only 27mm from the surface, 2 positioning aids at 45° for repeatable appraisal of stray light
- ▶ Unibody housing for added robustness and thermal stability
- ▶ Measurement range
  - Luminance: 0,05 to 2.500 cd/qm
  - Chromaticity: 0,05 to 2.500 cd/qm
- ▶ Accuracy
  - Luminance: +/-2% 1 digit (1 ~500cd/m<sup>2</sup>)
  - Chromaticity: +/-0.002 illuminant D65
  - Chromaticity: +/-0.0025 CCT 4000-15000K
  - Chromaticity: +/-0.0065 for other colors
- ▶ Calibration: PTB traceable
- ▶ Flickering: Measurement according to VESA standard
- ▶ Interface: USB 2.0
- ▶ Power: 4,7 bis 5,5V DC über USB Stecker
- ▶ Parameter storage: 8 different base calibrations (5 occupied by factory setting), 16 positions for user calibrations, can be arbitrarily combined with factory calibrations: 128 combinations
- ▶ Timing: max. 10 measurements/s for low sensitivity, max. 4 measurements/s for high sensitivity
- ▶ Temperature compensation: 10 to 50°C
- ▶ USB cable: ca. 1800mm
- ▶ Dimensions:  $\varnothing$  97mm, height: 27mm, weight: 310g
- ▶ Included in delivery: Instrument w/ laser pointer and integrated calotte, socket adapter 3/8" to 1/4", mounting suspension w/ integrated tape measure, bag
- ▶ Products, Bundles and Accessories:
  - ▶ basICColor DISCUS • High-end monitor colorimeter
  - ▶ basICColor display • Software for calibrating monitors, projectors, light boxes...
  - ▶ basICColor diLIGHT • calibratable light box
  - ▶ TSA • Re-certification, firmware upgrades, (custom calibrations not covered)

All published specifications and services are provided "As Is" without warranty of any kind and subject to change without notice.

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