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# GL **SPECTIS 5.0 touch**

With the new GL SPECTIS 5.0 touch, we expanded our smart touch screen technology into laboratory grade equipment.

The wide wavelength range allows for measurements in accordance with a number of standards, including Photobiological Safety (EN 62471) or measurement of SSL products (IESNA LM-79-08, CIE S 025/E:2015).


**Features:**

- Touch screen display
- Automatic accessory detecion
- Dark current compensation
- Trigger socket
- Universal mount
- Photometric and radiometric calibration

| **APPLICATION** | | |
|---|---|---|
| Application | Special applications in the measurement of light sources and optical components, laboratory grade | Compliance with the following:<br>IESNA LM-79-08<br>CIE S 025 / E:2015 |
| **LED MEASUREMENT** | | |
| Illuminance (lux) | 0.1 lx … 50 000 lx | Standard diffusor |
| Luminance [cd/m²] | 0.01 cd/m² – 1500 cd/m² | with OPTI PROBE |
| Luminous intensity (cd) | Calculated in SPECTROSOFT | |
| Illuminance class | Klasse B – DIN 5032-7; Class A on demand<br>Klasse AA – JIS C 1609-1:2006 | |
| Tolerance – cosine response (f2') | < 3 % (1,9 %) | |
| Luminance measurement method | Optional with GL OPTI PROBE 5.0 | |
| Spectral range | 340 – 850 nm (VIS) | SPECTIS 5.0 touch VIS |
| | 200 – 800 nm (UV-VIS) | SPECTIS 5.0 touch / UV-VIS |
| | 380 – 1050 nm (VIS-NIR) | SPECTIS 5.0 touch / VIS-NIR |
| | 200 – 1050 nm (UV-VIS-NIR) | SPECTIS 5.0 touch / UV-VIS-NIR |
| **CALCULATED VALUES** | | |
| CRI – Color rendering index according to CIE | Ra, R1-R14 | |
| CCT – Correlated color temperature according to CIE 13.3 | ✓ | |
| Color peak | ✓ | |
| Color dominant | optional with GL SPECTROSOFT | |
| Color position coordinates [x,y] according to CIE 1931 | ✓ | |
| Color position coordinates [u',v'] according to CIE 1976 | ✓ | |
| Color position coordinates [u, v] according to CIE 1960 | ✓ | |
| Color coordinate error | optional with GL SPECTROSOFT | |
| Metameric index | optional with GL SPECTROSOFT | |
| Binning | optional with GL SPECTROSOFT | |
| Assessment in accordance with ISO 3664 | optional with GL SPECTROSOFT | |

Technical Sheet

# GL **SPECTIS 5.0 touch**

| **PHOTOMETRY / RADIOMETRY** | | |
|---|---|---|
| Sensor | Back-thinned type CCD image | |
| Number of pixels | 2048 | |
| Physical resolution / datapoint interval | ~ 0.5 nm | |
| Wavelength reproducibility | 0.5 nm | |
| Integration time | 10 ms – 60 s | |
| A/D converter | 16 bit | |
| Signal-to-noise ratio | 1000:1 | |
| Stray light | 2*10 E-4 | |
| Optical resolution / FWHM | 2.5 nm – 3.5 nm | |
| Radiometric accuracy | 4 % | |
| Flicker compensation | ✓ | |
| Temperature sensor and dark current compensation | ✓ | |
| Uncertainty of color coordinates | 0.0015 | |
| Automatic accessory detection | ✓ | |
| Operating System | Android | |
| Power supply via USB connector | < 640 mA | |
| Power adapter | Power supply unit 100…240 V (50/60 Hz) 0.15 A | |
| Battery / Power pack | Li-ion battery 4000mAh | |
| Automatic shut-off | ✓ | |
| Battery life | ~ 6 h | |
| Operating temperature | 5 – 35 °C | |
| Dimensions [H x W x D] | 111 mm x 210 mm x 58 mm | |
| Weight | 1500 g | |
| Tripod adapter | ✓ | |
| **INTERFACE & MEMORY** | | |
| USB | USB 2.0 | |
| Wi-Fi | 802.11b/g | |
| Bluetooth | ✓ coming soon | |
| Trigger | Open collector, minijack 3.5 mm, 3-pin stereo programmable | |
| SD Card slot | microSD | |
| Measurement result storage | Auto / 4 GB microSD | |
| Data format | XML | |
| Fiber optic connector | Optional SMA905D | |
| **DISPLAY & OPERATION** | | |
| Display | 3.5“ color LCD 240 x 320 | |
| Operation | Touch Screen, PC / Notebook | |

Technical Sheet

# GL **SPECTIS 5.0 touch**

| **SOFTWARE** | | |
|---|---|---|
| Software | Optional GL SPECTROSOFT Basic / Pro / Lab | |
| **ORDERING INFORMATION** | | |
| Case | ✓ | |
| Battery | ✓ | |
| USB cable | ✓ | |
| Power supply | ✓ | |
| Leash | ✓ | |
| Display protection foil | ✓ | |
| 4GB microSD card | ✓ | |
| Part number | GLX 5.0t no. 106989 | SPECTIS 5.0 touch VIS |
| | GLX 5.0t no. 173690 | SPECTIS 5.0 touch UV-VIS |
| | GLX 5.0t no. 173708 | SPECTIS 5.0 touch VIS-NIR |
| | GLX 5.0t no. 173716 | SPECTIS 5.0 touch UV-VIS-NIR |

**GL Optic Lichtmesstechnik GmbH** | Tobelwasenweg 24 | 73235 Weilheim/Teck | GERMANY
Tel.: +49 (0)7023 9504-20 | Fax: +49 (0)7023 9504-830 | office@gloptic.com | www.gloptic.com
Geschäftsführer: Michael Gall | Sitz der Gesellschaft: Weilheim/Teck | Amtsgericht Stuttgart HRB746271
U-St. IDNR: DE 292228248 | Steuer-Nr.: 69068/56239