



Datasheet

Spectro **LFP_{qb}**



Spectral unit

- Measurement conditions: According to ISO 13655-2017 Reflection and transmission: M1 (method a), M0, M2 (UVcut), M3 (reflection only, with optional polarization filter)
- Measuring apertures: Switchable between 2, 6 and 8 mm diameter (reflection and transmission)
- Geometry:
 - reflection 45°:0° circumferential (ISO 5-4:2009)
 - transmission d:0 (ISO 5-2)
- Calibration: automatic with internal white reference
- Physical illumination: programmable color temperature
 - Reflection: 3 point circumferential, 7 LED-chip
 - Transmission: diffuse, 6 LED module
- Measuring sensor: diffraction grating with diode array
 - Spectral range: 380 ... 750 nm
 - Spectral resolution: 2 nm
 - Optical resolution: 10 nm
- Spectral reflectance range: dynamic (> 200%) for measurement of fluorescent specimens
- Short term repeatability: 0.05 ΔE_{00} on white ceramic tile (standard deviation, 10 measurements made in spot mode) < 0,2 ΔE_{00} in scanning mode
- Inter-instrument agreement on 12 BCRA color tiles:
 - Average: 0.5 ΔE_{00}
 - Max: 1.0 ΔE_{00}
- Display: 320x240 pixel, touch screen
- Battery: Li-Ion accumulator 3,7VDC, 5200mAh
Charging time:
 - 2,5 hours when connected to platform,
 - 10 hours through USB port

- Temperature sensor:
 - range -20 ... +50 °C (-4 ... +122 °F)
 - resolution 0,1 accuracy: +/- 1,0
- Humidity sensor:
 - range 0 ... 100 %
 - resolution 1 accuracy: +/- 5%
- Interface:
 - USB 2.0 type C,
 - WiFi 2,4 GHz IEEE 802.11b/g/n (2,4 GHz only)
 - Open, WEP, WPA, WPA2 Security
 - FCC (USA), IC (Canada), CE (Europe), MIC (Japan), KCC (South Korea) Certified
- Dimensions: 237 x 82 x 65 mm
 - Weight: 1000 g

Platform

- Maximum measuring area: 305 x 230 mm (LxH)
- Measuring speed: typical LFP chart with approx. 600 patches: 2 min.
- Target thickness: Max. 20 mm
- Processing unit: 1 GHz Linux board
- Interface:
 - USB 2.0 type B,
 - Ethernet RJ45
- Power adapter: 110...240 Volt
- Dimensions: 775 x 550 x 175 (table extension included)
- Weight: 12,2 kg (table extension included)

Sensing unit

- Camera: 8 MPixel
- Processing unit: 1 GHz Linux board
- Dimensions: 260 x 83 x 53 mm
- Weight: 240 g

Spectro LFP qb

- Standard equipment:
 - C5A10 Spectro LFP qb Spectral Unit
 - C5A20 Spectro LFP qb Platform (with table extension)
 - C5A30 Spectro LFP qb Sensing Unit
 - C5H40 Standard reflection sample holder
 - C5H50 Standard transmission sample holder
 - C5H70 Spot Measurement Guide
 - Power adapter
 - USB cable Type B (Platform to Computer)
 - USB cable Type C (Spectral unit to Computer)
 - Dust cover
 - Operating manual
 - Measuring software: Barbieri Gateway for Microsoft Windows 7 or newer (64 Bit), Mac OSX 10.10 or newer (free download)
- Available Accessories:
 - Electrostatic sample holder Spectro LFP qb
 - White backing electrostatic sample holder Spectro LFP qb
 - Black backing electrostatic sample holder Spectro LFP qb
 - Set of 2 sample holders for heavy and thick media
 - Frame transmission sample holder for M1 measurements
 - DOC activation Spectro LFP qb (software activation)
 - Polarization filter Spectro LFP qb
 - Flight Case Spectro LFP qb
- Total weight including standard accessories: 14,5 kg
- System requirements
 - Microsoft Windows 7 or later (32 and 64 bit)
 - Mac OS X 10.10 or later