

Datasheet

Spectro LFP qb

Order code: C5A00



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: variable 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: $\pm 1,0$
- Humidity sensor:
 - range 0 ... 100 %
 - resolution 1 accuracy: $\pm 5\%$
- 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) UKCA (UK) 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 C,
 - 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 sampleholder
 - C5H50 Standard transmission sample holder
 - C5H70 Spot Measurement Guide
 - Power adapter
 - USB cable Type C
 - Dust cover
 - Operating manual
 - Measuring software: Barbieri Gateway for Microsoft Windows, Mac OS (free download)
- Available Accessories:
 - C5H10 Electrostatic sample holder Spectro LFP qb
 - C5H11 White backing electrostatic sample holder Spectro LFP qb
 - C5H12 Black backing electrostatic sample holder Spectro LFP qb
 - C5H20 Set of 2 sample holders for heavy and thick media
 - C5H30 Frame transmission sample holder for M1 measurements
 - C5S05 DOC activation Spectro LFP qb (software activation)
 - C5F10-3 Polarization filter Spectro LFP qb
 - C5X00 Flight Case Spectro LFP qb
- Total weight including standard accessories 14,5 kg

Spectrophotometer SpectroSwing qb

Easy to use, versatile and reliable.

For most different, flexible media (paper, banner, canvas, canvas cover for trucks, backlit etc.)

Thanks to his ability to measure also transparent materials and to measure most different flexible media, the Spectro Swing qb is a very special and unique measuring device. It is the ideal measuring device for production environments as it is tailored to the needs of all aqueous, solvent and UV roll-to-roll printers.

Main features

- Easy to use thanks to its "no-button operation"
- For most different, flexible media (paper, banner, canvas, canvas cover for trucks, backlit etc.)
- Easy-Operation-Mode
- Avoiding handling errors
- Extremely high measuring precision and repeatability
- Supported by most RIP-software
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Target markets

- For all aqueous, solvent and UV roll-to-roll printers
- Digital photo and inkjet printing
- Packaging
- Proofing
- Fine art printing
- Traditional printing
- Consumer printing

Application fields

- Creation of ICC profiles for digital output devices for different media (both reflective and transparent)
- For linearization of digital output devices

Optionals

- Digital Output Control (DOC)

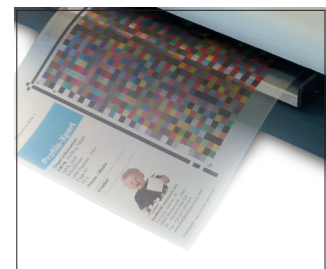
Recommended accessories

- Transmission sample holders

Technical data

- Maximum measuring area: 220 x 600mm (8.7 x 23.6 in)
- Maximum patches / target: up to 3000
- Target thickness: max. 1,2mm (0.05 in)
- Measuring aperture:
 - reflection 2mm (0.08 in)
 - transmission 2mm (0.08 in)
- Smallest measuring step: 0,2mm (0.008 in)
- Geometry:
 - reflection 45°:0°
 - transmission d:0
- Calibration: automatic with internal white reference
- Physical illumination: White LED module with D50 simulation
- ISO 13655-2017 measurement condition M0, M1, M2 (UVCut)
- Repeatability:
 - < 0,2 ΔE_{00} on white or
 - $\pm 0,005D$ (up to 1.000D)
- Inter-instrument agreement on 12 BCRA color tiles:
 - Average: 0.5 ΔE_{00}
 - Max: 1.0 ΔE_{00}
- Measuring sensor: diffraction grating with diode array
- Spectral range: 380 ... 750 nm
- Spectral resolution: 2 nm
- Optical resolution: 10 nm
- Spectral range: 380 ... 780nm
- Density measuring range: 0...2.5D
- Interface:
 - USB-C and Ethernet
- Dimensions:
 - 510 x 240 x 130mm (LxWxH)
 - 20 x 9.5 x 5.1 inch
- Weight: 5.5 kg (12 lbs)

- Including free measuring software Barbieri Gateway for Mac and PC



For transparent media to apply color management where images are illuminated from behind



Datasheet **Spectro pad[®]** Series 2

Technical data

- Measuring modes
 - Reflectance spot color with Delta E
 - Reflectance strip scanning with automatic patch detection (linearization, profiling)
 - DOC (Digital OutputControl – optional) with pass/ fail analysis
- Measurement: manual with expandable ruler for X-direction and roller guide for Ydirection
- Positioning: with laser pointer
- Measuring aperture: 6 mm diameter
- Patch size: 12x12 mm recommended
- Scanningspeed: max. 200 meas./sec
- Maximum strip length: 290 mm
- Geometry: 45:0
- Physical illumination:
 - 3 point circumferential,
 - 7 LED-chip D50 illumination
- ISO 13655-2009 measuring mode M1 and additional M0, M2 (UVcut)
- Measuring sensor:
 - diffraction grating with diode array
- Spectral range: 380 ... 750 nm
- Spectral resolution: 2 nm
- Optical resolution: 10 nm
- Calibration:
 - manual with internal white reference
- Short term repeatability:
 - < 0,2 ΔE_{00} on white
- Inter-instrument agreement:
 - 0,5 ΔE_{00} average, 1,0 ΔE_{00} max.,
 - on BCRA Series II tiles
- Internal memory: 4 GByte Ports: USB 1.1, WiFi
 - 2,4 GHz IEEE 802.11b/g/n (2,4GHz only)
 - Open, WEP, WPA, WPA2 Security
 - FCC (USA), IC (Canada), CE (Europe), MIC (Japan), KCC (South Korea)Certified



- Display: 320x240 pixel, touch screen
- Battery: Li-Ion accumulator (2 hours continuous measurement)
- Interface:
 - USB and WiFi for Mac, PC and Linux
- Temperature sensor:
 - range -20 ... +50 °C (-4 ... +122 °F)
 - resolution 0,1 accuracy: +/- 1,0
- Humidity sensor:
 - range 0 ... 100 %
 - resolution 1 accuracy: +/- 5%
- Dimensions: 210 x 220 x 90 mm (LxWxH)
- Weight: 1,4 kg

System requirements

- Microsoft Windows 7 or later (32 and 64 bit)
- Mac OS X 10.10 or later
- Including free measuring software Barbieri Gateway for Mac and PC

Accessories:

- 110...240 Voltcharger with international adapters
- USB cable
- Cleaning tissue