

KERN JCS 100

Versatile colour spectrometer for professional use



Category

| | |
|------------------|---------------------|
| Brand | Sauter |
| Product category | Colorimeter |
| Product group | Colour spectrometer |
| Product family | JCS |

Measuring System

| | |
|----------------------------------|-------|
| Reflection measuring range [Min] | 0% |
| Reflection measuring range [Max] | 200% |
| Reflection resolution | 0,01% |

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|--------------------|--|
| Measuring aperture | MAV:Φ8mm/Φ10mm ; SAV:Φ4mm/Φ5mm ; LAV:1x3mm |
|--------------------|--|

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|------------------|--|
| Optical geometry | D/8(diffused illumination, 8-degree viewing angle), SCI/SCE (specular component included/specular component excluded) Mode, Comply to CIE No. 15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7 |
|------------------|--|

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|----------------------------------|------------|
| Integrating the sphere sizes (Ø) | 40 mm |
| Wavelength range (nm) | 400-700 nm |
| Display accuracy | 0,01 |
| Light source | LED UV |

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| Colour space | CIE LAB XYZ Yxy LCh CIE LUV |
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|---------------------------|--|
| | s-RGB HunterLab βxy DIN Lab99 |
| Specular components | SCI SCE |
| Colour difference formula | ΔE*ab ΔE*uv ΔE*94 ΔE*cmc(2:1) ΔE*cmc(1:1) ΔE*00 DINΔE99 ΔE(Hunter) |
| other colorimetric index | Spectral reflectance, WI(ASTM E313,CIE/ISO,AATCC,Hunter), YI(ASTM D1925,ASTM 313),Metamerism Index Mt,Staining Fastness, Color Fastness,Color Strength, Opacity,555 tone classification, Munsell(C/2)(Mobile APP implementation) |
| Observation angle | 2° 10° |
| Lighting | D65 A C D50 D55 D75 F1 F2(CWF) F3 F4 F5 F6 F7(DLF) F10(TPL5) F11(TL84) F8 F9 F12(TL83/U30) U35 NBF ID50 ID65 |
| Results display | Spectrogram/Values Colour sample values Colour difference values/graphics PASS/FAIL result |

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| | |
|-----------------------------|---|
| | Colour simulation Colour offset |
| Chromaticity value | MAV/SCI |
| Standard deviation (within) | 0,08 |
| Instrument error | MAV/SCI, Within ΔE^*ab 0.3 (Average for 12 BCRA Series II color tiles) |
| Response time | 1 s |

Approval

| | |
|---------|---|
| CE mark | ✓ |
|---------|---|

Display

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|---------------------|------------|
| Display type | graphic |
| Display type | TFT, color |
| Display screen size | 2,8 " |
| Display resolution | 320×480 |

Construction

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|----------------------------------|--------------|
| Dimension display device (W×D×H) | 188×94×68 mm |
| Material display housing | Plastics |

Functions

| | |
|------------------------|--|
| Memory function | ✓ |
| Interfaces | Bluetooth USB 2.0 |
| Locating method | Stabilizer position Camera locating |
| White calibration mode | Automatic contact calibration Non-contact automatic calibration |

Power Supply

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|---|-------------------------------|
| Input voltage power supply / power [Max] | 230 V AC, 50 Hz |
| Input voltage device / power [Max] | 5 V, 2000 mA |
| Plug-in power supply type | USB including power supply |
| Supplied power supply | Battery & Power supply |
| Plug-in power supply / adapter for countries - included with the delivery | EURO |

Packing & Shipping

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|---------------------------|---------|
| Readability force [d] (N) | 1 d |
| Net weight | 0,27 kg |

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|--------------------|----------------|
| Shipping method | Parcel service |
| Net weight approx. | 0,30 kg |

Pictograms

STANDARD

