

Product Introduction :

CS-800 uses 8/d (8°/diffused illumination) ,design the upward test caliber, can measure state of solid, samples of different particles, powder, paste etc. easily.

Solid samples (steel, cloth) can be placed directly on the measurement port, particles (tablets, master batch), powder (pigment, coffee), paste objects (tomato sauce) can be placed in a Petri dish, and then placed in the mouth of the measurement test.

Using ETC (Every Test Calibration) real-time calibration technique, in each measurement, the spectrophotometer will be to calibrate the system hardware and software.

This technique solves the problem of long-term stability and measurement data drift color measuring instrument fundamentally. Spectral reflectance standard deviation within 0.08, Chroma value Delta E*ab maximum value of 0.03, the Inter-instrument agreement is less than 0.2.

The spectrophotometer can be connected through the use of PC and color management software, it is easy to the quality control and color data management of enterprises. The color management of user data, compare the color difference, generate test report, to provide a variety of color space data, color management of customized customer.

Product Characteristic

Professional design, powerful instrument functions

- Test caliber upward, can measure state of solid, samples of different particles, powder, paste etc. easily
- Φ11mm measuring caliber
- Uses LED light source; high capacity rechargeable lithium-ion battery 3000000 times in 10 years
- Can measure both SCI(specular included)and SCE(specular excluded) at the same time
- Obtained China Metrology Accreditation Certificate
- 5-inch TFT color screen
- 1 USB data transmission, Includes PC software to manage data
- Large data storage : Can record 40000 test data
- Modern and fashionable design based on human engineering
- Easy to use operation modes and compact operation interface
- Design of low power consumption, large capacity rechargeable lithium battery configuration
- Can connect to mini-printers for printing

Specifications

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| Illumination | d/8(Diffused lighting, 8 degrees observe angle) SCS optical engine (light splitting and integration system) , ETC (real time calibration technology) ,SCI (specular reflection included) / SCE(specular reflection excluded) simultaneous measurement. (conform to CIE No.15、 ISO 7724/1、 ASTM E1164、 DIN 5033 Teil7、 JIS Z8722 Condition c standards) |
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| Size of integrating sphere | Φ40mm, Alvan diffused reflection surface coating |
| Illumination Light source | CLEDs(entire wavelength balanced LED light source) |
| Sensor | dual light path sensor array |
| Wavelength range | 400-700nm |
| Wavelength interval | 10nm |
| Half spectral width | 5nm |
| Reflectivity range | 0-200% |
| Reflectivity resolution | 0.01% |
| Observation angle | 2°/10° |
| Measurement light source | A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,DLF,TL83,TL84,NBF,U30,CWF |
| Data being displayed | SPD distribution/data, sample's color values, color difference values/graph, pass/fail results, color error tendency, color simulation, display measurement area,history data color simulation, manual input standard sample, generate measurement report |
| Measurement time | About 1 second |
| Measurement time interval | 0.5 second |
| Measuring caliber | Φ11mm |
| Color space | CIE-L*a*b,L*C*h,L*u*v,XYZ,Yxy,reflectivity,Hunterlab,Munsell MI,CMYK |
| Color difference formulas | $\Delta E^*ab, \Delta E^*CH, \Delta E^*uv, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*94, \Delta E^*00, \Delta Eab$ (Hunter), 555,color classification |
| Other colorimetric indices | WI(ASTM E313-00,ASTM E313-73,CIE/ISO,AATCC,Hunter,Taube Berger Stensby), YI(ASTM D1925,ASTM E313-00,ASTM E313-73),Tint(ASTM E313,CIE,Ganz),metamerism index Milm, adhesive/ changing color fastness, ISO luminance,8 gloss, A density, T density |
| Repeatability | light splitting reflectivity : standard deviation within 0.08% color values : $\Delta E^*ab \leq 0.015$ (After calibration, standard deviation of 30 measurements on test white board, 5 second intervals) , Maximum : 0.03 |
| Battery capacity | rechargeable, 20000 continuous tests, 7.4V/6000mAh |
| Interface | USB |
| Data storage | 40000 test results |
| Light source longevity | 10 years, 3 million tests |
| Inter-instrumentag | ΔE^*ab within 0.2 (BCRA color charts II, average of the 12 charts) |

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| Size | 350*300*200mm(L*W*H) |
| Weight | About 4.5kg |
| Display | 5-inch True color screen |
| Work temperature range | 0~45°C, relative humidity 80% or below (at 35°C) , no condensation |
| Storage temperature range | -25°C to 55°C, relative humidity 80% or below (at 35°C) , no condensation |
| Standard accessories | AC power line, manual, color management software, drive software, electronic manual, color management guide, USB cable, black/white calibration tube, electronic color charts |
| Optional accessories | powder molding device, measurement and test report |
| Color matching system | Matches |
| UV light source | Does not include UV light source |