



COTS7700 Portable Spectro-Colorimeter

Download
Catalogue



**TFT color LCD, Capacitive
Touch Screen**



Sensor: Silicone Photodiode Cells



Large capacity storage space



**PC Software has powerful function
expansion**

COTS7700 Portable spectro-colorimeter is also widely used in the color quality control of various products. COTS7700 is equipped with high-end color management software, which is connected to the computer to realize more function expansion. The instrument has stable performance, accurate color measurement and powerful function. It is widely used in plastic electronics, paint and coating, textile printing and dyeing, printing paper, automobile, medical treatment, cosmetics and food industries, as well as scientific research institutions and laboratories etc.

- It has specialized software for displaying various chromatic diagrams.
- The possibility of automatic graphic display of different color models and their differences in two and three dimensions.
- The possibility of direct data entry during laboratory measurements.
- It has a program for data transfer with the extension txt and csv.

Technical specification

Illumination/observation system: d/0 (diffused illumination, 0-degree viewing angle)

Combined LED light/ pulsed Xenon lamp source with high life and low power consumption;

Accurate spectrum and lab data, used for color matching and accurate color transmission;

High hardware configuration: 3.5-inch TFT true color screen, capacitive touch screen, 1000 line blazed grating, silicon photocell array detector with large photosensitive area, etc;

USB / Bluetooth / RS-232C communication mode, wider adaptability;

Super dirt resistant and stable standard white calibration board;

Large capacity storage space, which can store more than 30000 pieces of test data;

Sensor: Silicone photodiode cells;

Measurement Time: about 1s;

Color Space: L*a*b, XYZ, Yxy, L*C*h, CIE LUV,s-RGB, Hunter Lab, β xy, Munsell (only illuminat C)

Display Data: Spectrogram/Values, Chrom values, Color Difference Value/Graph, PASS/WARN/FAIL Result, Color Offset;

Colorimetric Value: Standard deviation within ΔE^*ab 0.02 (Measurement conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.);

Camera locating position and Stabilizer cross measurement position;

Operating temperature: 0-40°C

PC software has powerful function expansion.

Type	COTS7700
Optical Geometry	Diffused illumination, 0-degree viewing angle SCI (specular component included)
Light Source	Combined LED light source/pulsed xenon lamp
Sensor	Silicone photodiode cells
Measured Reflectance Range	0-200%
Measurement / Illumination area	Ø8mm/Ø11mm
Color Space	L*a*b*, XYZ,Yxy, L*C*h, CIE LUV,s-RGB, Hunter Lab,βxy, Munsell (only illuminat C)
Observer Angle	2°
Illuminant	D65, A, C, D50, D55, D75, F1, F2(CWF), F3,F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30)
Displayed Data	Spectrogram/Values, Chroma Values, Color Difference Values/Graph, PASS/WARN/FALL Result, Color Offset
Measuring Time	About 1s
Minimum Measurement Interval	3s
Repeatability	Within ΔE*ab0.02 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument Error	ΔE*ab: Within 0.15; Avarage for 12 BCRA Series II color tiles
Dimension W*H*D (mm)	102x244x63
Weight (g)	Approx 550*
Power source	4 AAA size alkaline, AC Adapter (220V, 50-60Hz)
Battery	4 AAA battery, min 800 measurements
Illuminant Life Span	5 years, more than 3 million times measurement
Display	3.5-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB, RS-232C (Baud rate: min 19.200bps), Bluetooth 4.2
Data Storage	Standard 1000 Pcs, Sample 30000 Pcs
Language	English
Operating Environment	0~40°C, 0~85%RH or less at 35°C (no condensing), Altitude < 2000m
Storage Environment	-20~50°C, 0~85%RH or less at 35°C (no condensing)
Standard Accessory	Power Adapter, User Guide, PC Software, USB cable, White and Black Calibration Cavity, Protective Cover, Wrist strap
Optional Accessory	Micro Printer, Powder Test Box

* Including 4 AAA size batteries and not including RS-232C cable

Please note

If this Spectro-colorimeter does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

COLO LabExperts

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