

# CS-600



Can satisfy color measurement needs in almost all industries;

- China's spectrophotometer;
- Illumination: compact LED light source
- Repeatability: SD  $\Delta E^*ab$  0.05
- Weight: 530g

Excellent quality

China Metrology Accreditation 2° and 10° visual angles 2.8-inch TFT display screen compact LED light source stable performance spectral splitting technology

## Product Overview

CS-600 has combined multiple technological characteristics. It has excellent performance and high performance to price ratio among similar national and international products. Its has much better performance than traditional colorimeters. It has wide application fields; CS-600 can be used in factories and laboratories or on spot, and can ensure the best color measuring quality in the quality control of almost all application fields.

CS-600 is a portable spectrophotometer, it is light and easy to carry; its design is based on human engineering; the instrument is easy to use, and its appearance is fashionable. It uses a pre-location panel design, which avoids the need to use standard white and black boards during the instrument's calibration.

CS-600 does not have any moving parts, which avoids the error from the instrument's shaking during measurement. This means the measurement is more accurate.

CS-600 includes a powerful software. The software contains all necessary color formulas, various standard light sources for different tasks, and a large number of specific industry and application standards. The software's user interface has both Chinese and English language options, and we can make the interface in other languages, based on the needs of our customers. CS-600 has two measurement condition modes: SCI (Specular Component Included) and SCE (Specular Component Excluded); user can easily switch between them, or view the results from both conditions at the same time.

## Product Characteristics

Model	CS-600
Illumination/observation System	D/8 (diffused light, 8° reception, SCE/SCI)
Sensor	Photoelectric diode array
Integrating sphere diameter	40mm
Wavelength range	400nm – 700nm
Wavelength interval	10nm

Range of reflectance	
Light source	CLEDS
Measuring time	About 1.5 seconds
Measuring caliber	8mm
Repeatability	The standard deviation within $\Delta E^*ab$ 0.03, the standard deviation within 0.08%
Inter instrument agreement	Within $\Delta E^*ab$ 0.2
Languages	Chinese and English
Standard observer	2° and 10°
Observation light source	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12 (can select two light sources for display at the same time)
Displayed contents	Spectral data, spectral chart, chromatic values, chromatic aberration value, pass / fail, color simulation
Color space / standards	L*a*b*, L*C*h, $\Delta E^*ab$ (CIE1976), $\Delta Ech$ , $\Delta E^*94$ (CIE1994), $\Delta E00$ (CIE2000), CMC (1:1), CMC (2:1), Yxy, XYZ, WI (ASTM E313/CIE),
	YI (ASTM E313/ ASTM D1925), ISO brightness (ISO 2470), Destiny status A/T, CIE00, WI/Tint
Data storage	100 x 200 (100 sets of standard samples, up to 200 measurement records under each standard sample)
Port	USB
Power source	Detachable lithium-ion battery pack; DC adapter
Operation temperature and humidity range	5 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
Storage temperature and humidity range	0 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
Display	2.8-inch TFT color screen
Accessories	Black and white calibration box, pre-locating panel

Optional accessories	
UV fluorescent	Without UV

## Parameters

China's spectrophotometer: combines multiple technological characteristics; better performance than traditional colorimeters.

Wide application fields: can be used in factories, laboratories or on spot, it can ensure the best color measuring quality in the quality control of almost all application fields.

Portable color measuring instrument: Light and easy to carry; it uses high capacity, rechargeable lithium-ion battery pack, and it has compatible DC adapter.

Design based on human engineering: the instrument is easy to use, and its appearance is fashionable;

Professional horizontal design: does not have any moving parts, which avoids the error from the instrument's shaking during measurement. This means the measurement is more accurate.

Pre-locating panel design: more convenient calibration process; no longer needs standard white and black boards.

Dual measurement modes: can measure in both SCI (Specular Component Included) and SCE (Specular Component Excluded) conditions at the same time;

Powerful instrument software: contains all necessary color formulas and standard light sources for different tasks, and a large number of specific industry and application standards;

Large data storage space: can store 100 sets of standard samples, with up to 200 sets of measurement results under each standard sample;

Chinese and English languages: user interface supports both Chinese and English languages, and CHNSpec can design the interface in other languages based on the needs of the customers.