



## HACA-3600 high precision colorimeter

HACA high-precision colorimeter uses advanced spectral measurement patented technology to meet the requirements of R&D. Optical-color parameters including spectral reflectance curve, spectral transmittance curve, chromaticity parameters(  $L^*a^*b$ ,  $L^*C^*h$ , YXY, Luv, CMC (2:1), CMC (1:1),  $\Delta E^*ab$ ,  $\Delta E^*94$ ,  $\Delta E^*00$  (ASTM313/CIE), YI (ASTM313/ASTM D1925), Hunter Lab, XYZ, R, G, B) and others can be tested to meet the requirements of the color matching of various materials, which complies with the requirements of CIE, ISO, ASTM, DIN, JIS, GB/T and other standards .

### **Technical advantages:**

High accuracy, fast measurement and great stability

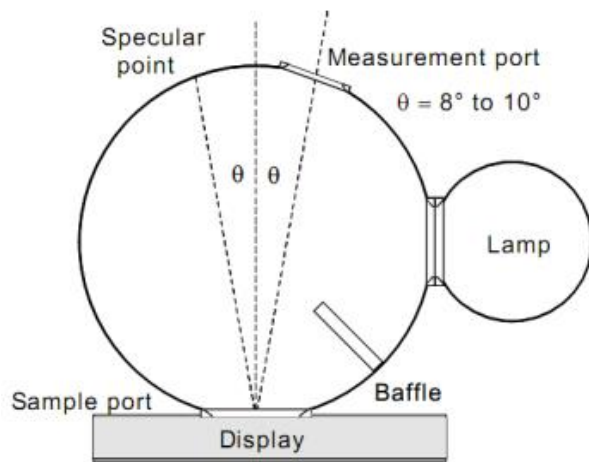
Feedback system with dual beam: real-time monitoring and compensation for light source fluctuations to guarantee repeatability and stability of measurement

Compatibility of SCI and SCE measurements geometry

Positioning of the test area accurately: Observing the details of the test area directly ensures the high accuracy of the sampling.

Multi-aperture automatic recognition: Three measurement apertures are optional: 28mmLAV, 11mmMAV and 5\*7mmSAV to be compatible with the measurement of different size displays. The

instrument has the ultra large touch screen to make the calibration and measurement easily without the external computer.



Measurement geometry:

Transmission: d/0 (diffuse illumination /0 degree reception); reflection: d/8 (diffuse illumination /8 degree reception);

Measurement geometry: SCI (including specular reflection) /SCE (exclude specular reflection)

Measurement aperture:

Transmittance measurement aperture: 20mm

Reflectance measurement aperture: LAV: 28mm; MAV: 11mm; SAV: 5 x 7mm

Different measuring apertures can be chosen for different sizes of samples, and corresponding aperture size can be automatically identified.

Wavelength range: 380-780nm (customized for special range)

Wavelength interval: up to 0.1nm

Reflectance range: 0-200%

Repeatability: standard deviation is less than 0.05% (Standard whiteboard).

Accessories: Standard whiteboard, zero calibration box.

**Software interface:**

