

# Restore True Color, Enjoy Color Matching



## YS3010 ECONOMIC SPECTROPHOTOMETER

Ys3010 grating spectrophotometer which with completed intellectual property rights by the manufacturer. It is a cost-effective spectrophotometer features with 8mm aperture, shows accuracy and stable data, large storage which can meet most of customer's requirements about the color measurement and quality control. Also equipped with high-end color management software which can connected with computer for more functions



Con-cave Grating



USB interface



LED light



Camera Locating



## Product Features

1. Beautiful appearance, perfect combination design;
2. D/8 geometrical optics, conforms with CIE No.15, GB/T 3978, GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7;
3. Accurate lab reflectance for color matching and transmission;
4. Concave grating structure, 3.5 inch TFT LCD touch screen;
5. Use long life and low power consumption combined LED light source;
6. Single 8mm aperture, support both SCI "and" SCE;
7. Many color spaces are widely used in many application;
8. Large capacity storage space, over 20,000 measurement data;
9. Camera Locating Function, better position;
10. PC software has a powerful function extension.



## Application Industries



Automobile

Leather

Plastics

Paint

Food stuff

Laboratory

Others

## Specification Parameters

**Model:** YS 3010 Grating Spectrophotometer

**Optical Geometry:** Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)

**Integrating Sphere Size:** 48mm

**Light Source:** Combined LED Light

**Spectrophotometric Mode:** Concave Grating

**Sensor:** 256 Image Element Double Array CMOS Image Sensor

**Wavelength Range:** 400-700nm

**Wavelength Interval:** 10nm

**Semiband Width:** 10nm

**Measured Reflectance Range:** 0-200%

**Measuring Aperture:** Single Aperture: 8mm/10mm

**Specular Component:** SCI & SCE,  $\Delta E^*_{uv}$ ,  $\Delta E^*_{94}$ ,  $\Delta E^*_{cmc}(2:1)$ ,  $\Delta E^*_{cmc}(1:1)$ ,  $\Delta E^*_{00v}$ ,  $\Delta E$ (Hunter)

**Color Space:** CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB

**Color Difference Formula:**

**Other Colorimetric Index:** WI(ASTM E313, CIE/ISO, AATCC, Hunter),

YI(ASTM D1925, ASTM 313),

TI(ASTM E313, CIE/ISO),

Metamerism Index MI, Staining Fastness, Color Fastness,

Color Strength, Opacity, 8° Glossiness

**Illuminant:** D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12

**Displayed Data:** Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset

**Observer Angle:** 2°/10°

**Measuring Time:** 2.6s

**Repeatability: MAV/SCI:**  $\Delta E^* \leq 0.05$

**Inter-instrument Error: MAV/SCI:**  $\Delta E^* \leq 0.4$

**Measurement Mode:** Single Measurement, Average Measurement

**Locating Method:** Camera Locating

**Battery:** Li-ion battery. 5000 measurements within 8 hours

**Dimension:** L\*W\*H=184\*77\*105mm

**Weight:** 600g

**Illuminant Life Span:** 5 years, more than 3 million times measurements

**Display:** 3.5-inch TFT color LCD, Capacitive Touch Screen

**Data Port:** USB

**Data Storage:** Standard 1000 Pcs, Sample 20000 Pcs

**Language:** English, Chinese

**Operating Environment:** 0~40°C, 0~85%RH (no condensing), Altitude < 2000m

**Storage Environment:** -20~50°C, 0~85%RH (no condensing)

**Standard Accessory:** Power Adapter, Built-In Li-ion Battery, User Guide, PC

Software, White and Black Calibration Cavity, Dust Cover

**Optional Accessory:** Micro Printer, Powder Test Box