



YS3010 ECONOMIC SPECTROPHOTOMETER

YS3010 is independently developed by 3nh, who has completed intellectual property rights. With high-effective cost and 8mm aperture, it has good accuracy and enough storage, suitable for most users' requirement. It has a PC software to connect the computer for color control quality management to achieve 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



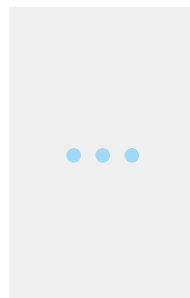
Paint



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

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

Color Difference Formula: ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00v , ΔE (Hunter)

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



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