



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

<p>Model: YS 3010 Grating Spectrophotometer</p> <p>Optical Geometry: Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)</p> <p>Integrating Sphere Size: 48mm</p> <p>Light Source: Combined LED Light</p> <p>Spectrophotometric Mode: Concave Grating</p> <p>Sensor: 256 Image Element Double Array CMOS Image Sensor</p> <p>Wavelength Range: 400-700nm</p> <p>Wavelength Interval: 10nm</p> <p>Semiband Width: 10nm</p> <p>Measured Reflectance Range: 0-200%</p> <p>Measuring Aperture: Single Aperture: 8mm/10mm</p> <p>Specular Component: SCI&SCE</p> <p>Color Space: CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB</p> <p>Color Difference Formula: ΔE^*ab, ΔE^*uv, ΔE^*94, $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00v, ΔE(Hunter)</p> <p>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</p> <p>Illuminant: D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12</p> <p>Displayed Data: Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset</p>	<p>Observer Angle: 2°/10°</p> <p>Measuring Time: 2.6s</p> <p>Repeatability: MAV/SCI: $\Delta E^* \leq 0.05$</p> <p>Inter-instrument Error: MAV/SCI: $\Delta E^* \leq 0.4$</p> <p>Measurement Mode: Single Measurement, Average Measurement</p> <p>Locating Method: Camera Locating</p> <p>Battery: Li-ion battery. 5000 measurements within 8 hours</p> <p>Dimension: L*W*H=184*77*105mm</p> <p>Weight: 600g</p> <p>Illuminant Life Span: 5 years, more than 3 million times measurements</p> <p>Display: 3.5-inch TFT color LCD, Capacitive Touch Screen</p> <p>Data Port: USB</p> <p>Data Storage: Standard 1000 Pcs, Sample 20000 Pcs</p> <p>Language: English, Chinese</p> <p>Operating Environment: 0~40°C, 0~85%RH (no condensing), Altitude < 2000m</p> <p>Storage Environment: -20~50°C, 0~85%RH (no condensing)</p> <p>Standard Accessory: Power Adapter, Built-In Li-ion Battery, User Guide, PC Software, White and Black Calibration Cavity, Dust Cover</p> <p>Optional Accessory: Micro Printer, Powder Test Box</p>
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