



YS3020 Customized Aperture Spectrophotometer

YS3020 is independently developed by 3nh, who has completed intellectual property rights. With variety of light sources, single aperture (8 or 4 or 1*3 mm), SCI/SCE, USB/Bluetooth, it has high accuracy and standard storage, very suitable for lab color analysis and transmission. Many color spaces make it widely used in lots of applications.



Con-cave Grating



USB/Bluetooth



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. Combined LED light source, excluding UV;
4. Optional 8mm/4mm/1×3mm aperture, support both SCI & SCE;
5. Accurate lab reflectance for color matching and transmission;
6. USB/Bluetooth 4.0, dual modes, widely useful;
7. Super stain-resistant and stable standard white calibration plate;
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

Foodstuff

Laboratory

Others

Specification Parameters

Model: YS 3020 Grating Spectrophotometer

Optical Geometry: Reflect: $d_i: 8^\circ$, $d_e: 8^\circ$ (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: Customized Aperture: 8mm/4mm/1×3mm

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: $2^\circ/10^\circ$

Measuring Time: 2.6s

Repeatability: MAV/SCI: $\Delta E^* \leq 0.04$

Inter-instrument Error: MAV/SCI: $\Delta E^* \leq 0.2$

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, Bluetooth 4.0

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



SHENZHEN ThreeNH TECHNOLOGY CO., LTD.

Address: F/6, Block 5B, Skyworth Inno Valley, Tangtuo 1st Road,
Shiyan, Baoan District, Shenzhen, P.R. China

Service Hotline: 400-666-2522

Email: sales@3nh.com

Tel: 86-0755-26508999

Fax: 86-0755-27190609