



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, including UV/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: 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: 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°/10°
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: 4/F, Building 8, Nangang Second Industry Zone, Xili, Nanshan District, Shenzhen, China.
 Sales: 400-666-2522
 Tel :86-755-26508999 Fax:86-755-27190609
 Email:sales@3nh.com Website:www.3nh.com

3nh
 Focus on Color