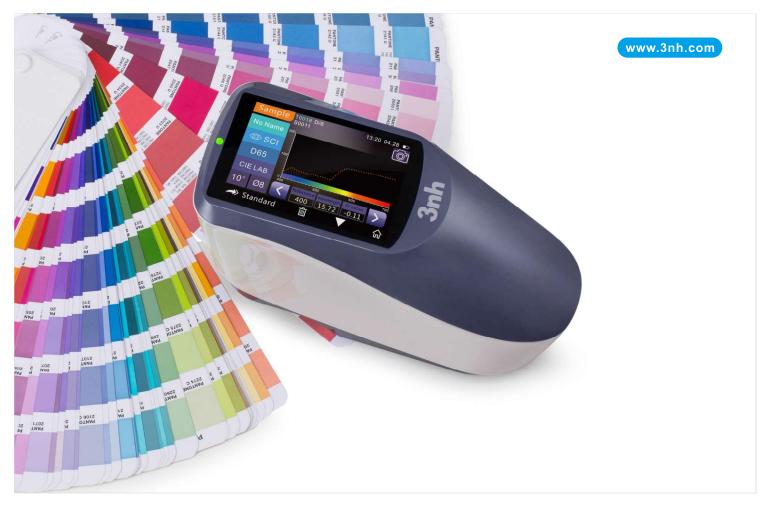


Restore True Color, Enjoy Color Matching



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.







LED light





Camera Locating



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012

Email: sales@calright.com http://www.calright.com

Product Features

- 1. Beautiful appearance, perfect combination design;
- 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: 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

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

 $\textbf{Other Colorimetric Index:} \ \mathsf{WI}(\mathsf{ASTM}\ \mathsf{E313},\ \mathsf{CIE/ISO},\ \mathsf{AATCC},\ \mathsf{Hunter}),$

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: ∆E*≤0.04

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

 $\textbf{Measurement Mode:} \ Single \ Measurement, Average \ Measurement$

Locating Method: Camera Locating

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

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

Weight: 600g

 $\textbf{Illuminant Life Span:}\ 5\ \text{years, more than 3 million times measurements}$

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

 $\textbf{Operating Environment:} 0 \sim \! 40 ^{\circ}\text{C}, \, 0 \sim \! 85\% \text{RH (no condensing)}, \, \text{Altitude} < 2000 \text{m}$

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

 $\textbf{Standard Accessory:} \ \mathsf{Power Adapter}, \ \mathsf{Built-In \, Li-ion \, Battery}, \ \mathsf{User \, Guide}, \ \mathsf{PC}$

 $Software,\,White\,and\,Black\,Calibration\,Cavity,\,Dust\,Cover$

 ${\bf Optional\,Accessory:} {\bf Micro\,Printer,\,Powder\,Test\,Box}$

