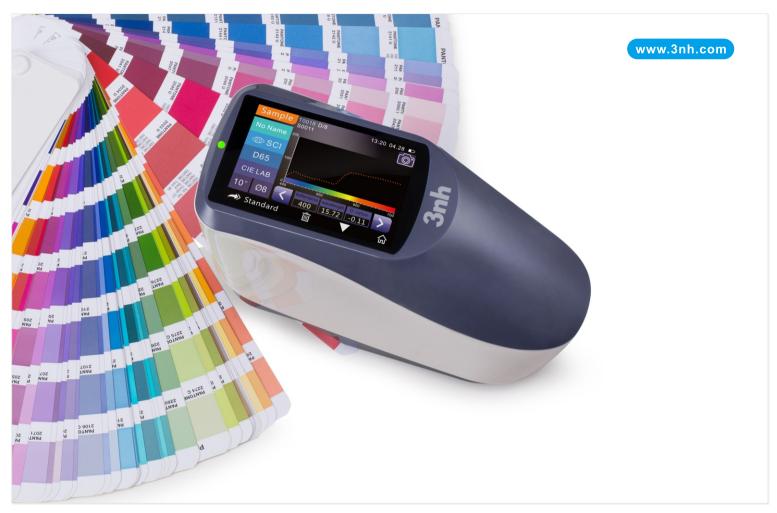


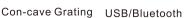
# Restore True Color, Enjoy Color Matching



## 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















#### 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 C MOS 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

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

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: ∆E\*≤0.04

Inter-instrument Error: MAV/SCI: ∆E\*≤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

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

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

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

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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