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Restore True Color, Enjoy Color Matching

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ISO 9001 Certified

YS3020 Customized Aperture Spectrophotometer

YS3020 is independently developed by 3nh, who has complete intellectual property rights. With variety of light sources, single customized aperture (8 or 4 or 1 *3 mm), USB/Bluetooth dual modes, it has high accuracy and standard storage, very suitable for lab color analysis and transmission. It can accurately measure the SCI and SCE reflectance data of samples/fluorescent samples, and can accurately measure various color difference formulas and color indexes under multiple color spaces.

Con-cave Grating

USB/Bluetooth

LED light

Camera Locating

APPLICATION INDUSTRIES


Automobile


Leather


Plastics


Paint


Foodstuff


Laboratory

Others

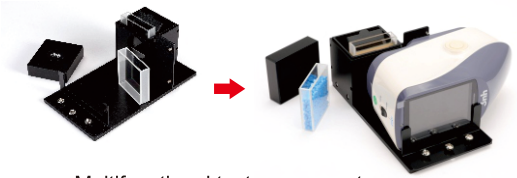
PRODUCT FEATURES

1.D/8 geometrical optics, conforms with CIE No.15,GB/T 3978,GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil
2.Use long life and low power consumption combined LED light source
3.Single 8mm aperture, support both SCI and SCE at the same time;
4.Measure sample spectra, accurate Lab data , can be used in color matching and accurate color transmission;
5.High electronic hardware configuration: 3.5-inch TFT color LCD,Capacitive Touch Screen, concave grating, 256 Iimage Element Double Arrays CMOS Image Sensor;
6.Super stain-resistant and stable standard white calibration plate;
7.Large capacity storage space, over 20,000 measurement data;
8.Two standard observer angles, a variety of illuminant, a variety of color indexes, conforms with a variety of standard colorimetric data, meet a variety of customers' demand for color measurement;
9.Camera Locating Function, better position;
10.PC software has a powerful function extension.

OPTIONAL ACCESSORIES

The instrument is equipped with various accessories; Such as micro printer, powder test box, etc.; Meet the needs of more measurement samples.

Powder test box: Easy to use, focusing on powdered target measurement.



Multifunctional test components: can be used to test liquid reagents, sauces (such as ketchup, paint), powders (such as coffeeBrown), color masterbatch, etc.

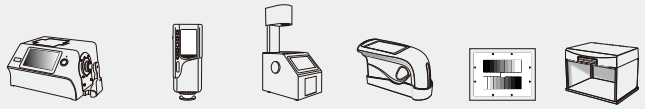
Micro printer: easy to carry, without computer can continuously print out the measurement of various parameters, easy to save.

SPECIFICATION PARAMETERS

Model: YS3020(Customized Aperture)
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%
Customized measuring aperture: ϕ4mm/ϕ8mm/1x3mm
Specular Component: SCI&SCE
Color Space: CIELAB,XYZ,Yxy,LCh,CIELUV,s-RGB,HunterLab,βxy,DINLab99,Munsell(C/2)
Color Difference Formula: ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00,DINΔE99,ΔE(Hunter)
Other Colorimetric Index: Spectral reflectance, whiteness (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube-Berger-Stensby), yellowness (ASTM D1925, ASTM E313-00, ASTM E313-73), metamerism index Mt, colorfastness to crocking, colorfastness to light, strength (dye strength, t inting strength), opacity, 8-degree gloss, 555 hue classification, blackness (My, dM), color density CMYK (A, T, E, M), tint (ASTM E313-00), color density, Munsell (some functions realized through a higher-level computer).
Illuminant: D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5, U30,B,U35,NBF,ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED-B5,LED-BH1,LED-RGB1,LED-V1, LED-V2,LED-C2,LED-C3,LED-C5(A total of 41 light sources (some functions realized through a higher -level computer)
Displayed Data: Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset
Observer Angle:2°/10°

Software Support: Android,iOS,Windows,WeChat Mini Program,HarmonyOS
Measuring Time: Approx.1.0s(whiletestingSCI/SCEapprox.2.6s)
Repeatability: Spectral reflectance: MAV/SCI, standard deviation within 0.1%(400~ 700nm: within 0.2%)
Chromaticity value: MAV/SCI, within△E*ab 0.04(After calibration, measure the average value of the white board 30 times each 5S.)
Inter-instrument agreement: MAV/SCI, within△E*ab 0.2(Average value for 12 BCRA series II color tiles)
Measurement mode: single measurement, average measurement(2-99 times)
Locating Method: Camera Locating
Battery: Li-ion battery.
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
Data Storage: Standard 1000 Pcs, Sample 20000 Pcs
Language: English, Chinese ,Traditional Chinese, Russian, Italian, French, Portuguese, Spanish, German
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 ,Multifunctional test components

GUANGDONG THREENH TECHNOLOGY CO., LTD.



★CONTACT US

web:www.3nh.com
Email:3nh@3nh.com
Tel:0086-020-82880288
Add: 6-8th floors, Building B33, Low Carbon Headquarters Park, Xincheng Road No.400, Zengcheng District, Guangzhou, Guangdong Province, China