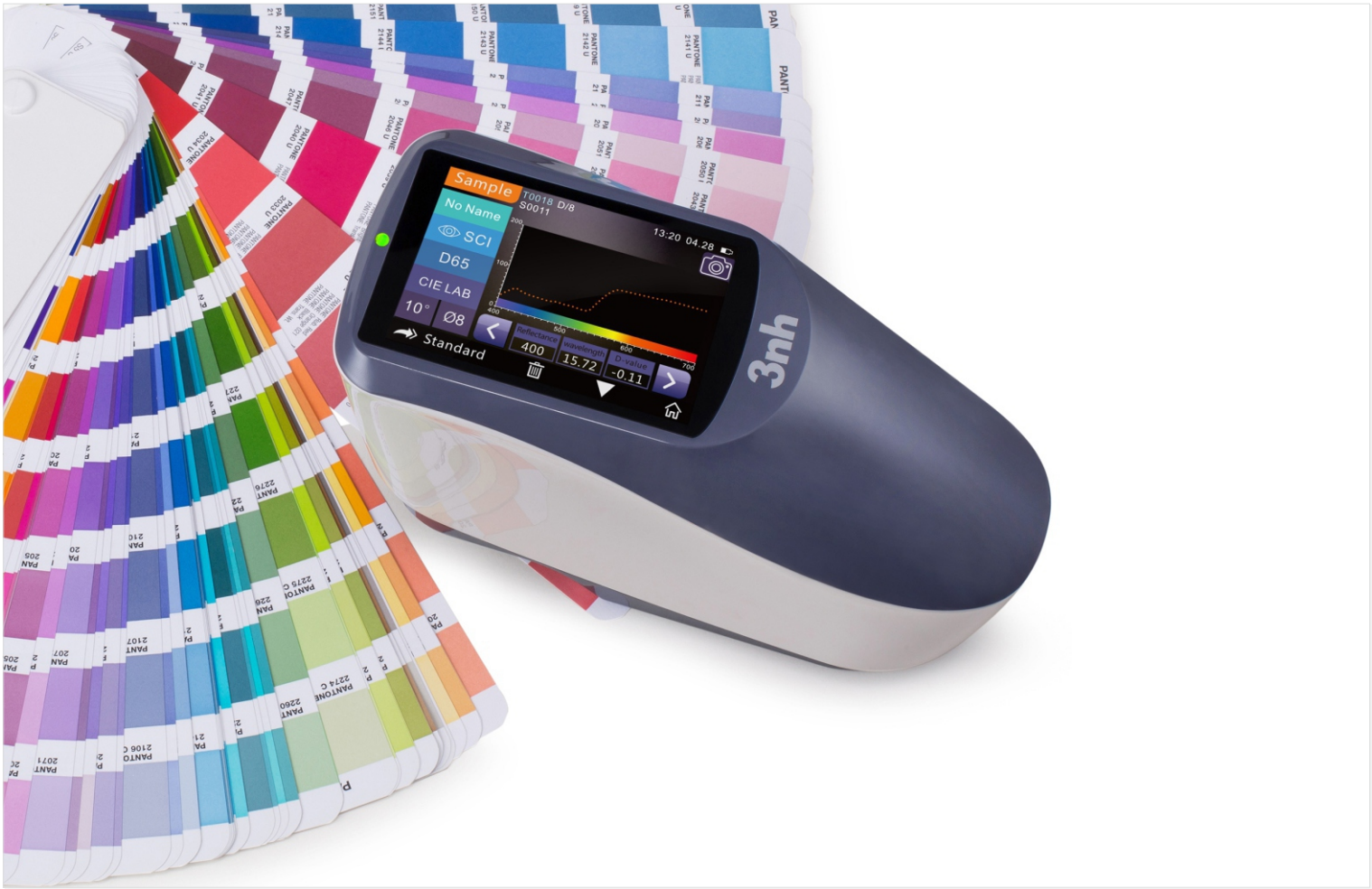
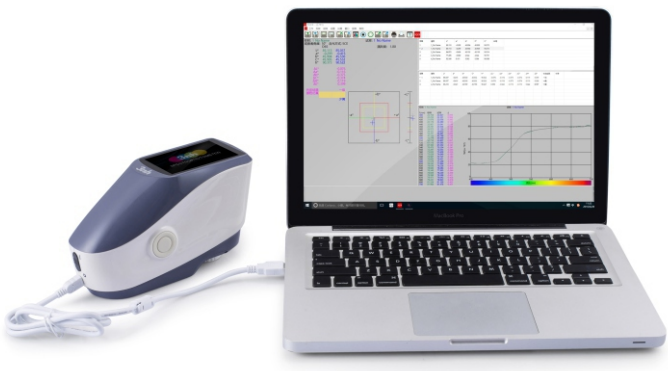
Restore True Color, Enjoy Color Matching



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

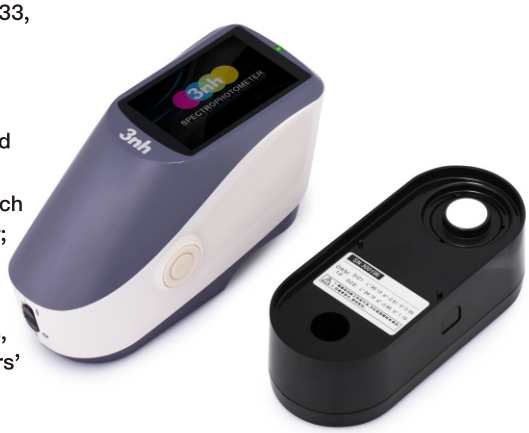
LED light

Camera Locating

ISO 9001 Certified

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.



APPLICATION INDUSTRIES


Automobile


Leather


Plastics


Paint


Foodstuff


Laboratory

Others

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: CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB
Color Difference Formula:△E*ab,△E*uv,△E*94,△E*cmc(2:1),△E*cmc(1:1),△E*00,△E(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:1.5s
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. 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
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


Spectrophotometers


Colorimeters


Haze Meters


Gloss Meters


Test Charts


Light Booths