Restore True Color, Enjoy Color Matching

YS3010 ECONOMIC SPECTROPHOTOMETER

YS3010 is independently developed by 3nh, who has completed intellectual property rights. With high-effective cost and 8mm aperture, it has good accuracy and enough storage, suitable for most users' requirement. It has a PC software to connect the computer for color control quality management to achieve more functions.

Con-cave Grating

USB interface

LED light

Camera Locating

ISO 9001 Certified

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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 Image 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

Food stuff

Laboratory

Others

SPECIFICATION PARAMETERS

Model: YS 3010 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
Locating Method: Camera Locating
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:Single Aperture: 8mm/10mm
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*00v ,△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 0.05(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)
Measurement Mode: Single Measurement, Average Measurement
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/RS-232
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

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