

twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

Ficha Técnica
Espectofotómetro
para medir color
3N-YS3060

www.twilight.mx





YS3060 Accuracy Spectrophotometer

YS3060 is independently developed by 3nh, who has completed intellectual property rights. With full set of light sources, dual apertures (8&4mm), SCI/SCE, UV, USB/Bluetooth, it has high accuracy and large storage, very suitable for lab color analysis and transmission. Accuracy, stable, powerful functions make it in the leading position of color industry.



Con-cave Grating



USB/Bluetooth



LED/UV light



Camera Locating



Product Features

1. D/8 geometrical optics, conforms with CIE No.15, GB/T 3978, GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7;
2. Combined long life LED light source, including/excluding UV;
3. Switchable $\Phi 8/4\text{mm}$ aperture, adapt to more samples;
4. USB/Bluetooth 4.0, dual modes, widely useful;
5. Support both SCI and SCE modes measurement;
6. Camera locating function, better position;
7. Super stain-resistant and stable white calibration plate;
8. Large capacity storage space, over 20,000 measurement data;
9. With full illuminants and many color indexes for color measurement;
10. PC software has a powerful function extension.



Application Industries



Automobile

Leather

Plastics

Paint

Foodstuff

Laboratory

Others

Specification Parameters

Model: YS3060 Spectrophotometer

Optical Geometry: Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)

Integrating Sphere Size: 48mm

Light Source: Combined LED Light, UV 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: Dual Aperture: 10mm/8mm & 5mm/4mm

Specular Component: SCI&SCE

Color Space: CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB

Color Difference Formula: ΔE^*_{ab} , ΔE^*_{uv} , ΔE^*_{94} , $\Delta E^*_{cmc}(2:1)$, $\Delta E^*_{cmc}(1:1)$, ΔE^*_{00v} , ΔE (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: 2.6s

Repeatability: MAV/SCI: $\Delta E^* \leq 0.03$

Inter-instrument Error: MAV/SCI: $\Delta E^* \leq 0.15$

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

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 4.0

Data Storage: Standard 1000 Pcs, Sample 28000 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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