## YS3060 Grating Spectrophotometer



YS3060 Grating spectrophotometer is developed by 3nh with independent intellectual property rights. It features with stable performance, precise measurement and powerful functions in the leading position of the same industry.

Comply with CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7, YS3060 grating spectrophotometer features UV, SCI/SCE, USB / Bluetooth, 8mm / 4mm switch aperture, etc. It has high accuracy 0.03 based on white calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.

## Features

A. Perfect combination of beautiful appearance and the human body mechanics structural design;

B.D/8 geometrical optics, conforms with CIE No.15, GB/T 3978, GB293, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Tile.

- C. Use long life and low power consumption combined LED light source, including UV/excluding UV;
- D. Switchable Φ8/4mm aperture, adapt to more samples; support both SCI and SCE at the same time;
- E. Measure sample spectra, accurate Lab data, can be used in color matching and accurate color transmission:

- F. High electronic hardware configuration: 3.5-inch TFT color LCD, Capacitive Touch Screen, concave grating, 256 image Element Double Arrays CMOS Image Sensor;
- G.USB/Bluetooth 2.1, dual mode, widely useful;
- H. Super stain-resistant and stable standard white calibration plate;
- I. Large capacity storage space, over 20,000 measurement data;
- J. 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;
- K. Camera Locating Function, better position;
- I. PC software has a powerful function extension.

Items	
Optical Geometry Integrating Sphere Size Light Source Spectrophotometric  Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle 48mm Combined LED Light, UV Light Concave Grating	Model
Optical Geometry Integrating Sphere Size Light Source Spectrophotometric  Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle 48mm Combined LED Light, UV Light Concave Grating	
Integrating Sphere 48mm Size  Light Source Combined LED Light, UV Light Spectrophotometric Concave Grating	
Size Light Source Combined LED Light, UV Light Spectrophotometric Concave Grating	
Light Source Combined LED Light, UV Light Spectrophotometric Concave Grating	
Spectrophotometric Concave Grating	Size
	Light Source
Mada	Spectrophotometric
Wode	Mode
Sensor 256 Image Element Double Array CMOS Image Sensor	Sensor
Wavelength Range 400-700nm	Wavelength Range
Wavelength Interval 10nm	
Semiband Width 10nm	·
Measured 0-200%	Measured
Reflectance Range	Reflectance Range
Measuring Aperture Dual Aperture: 10mm/8mm & 5mm/4mm	
Specular SCI&SCE	V 1
Component	•
Color Space CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB	
Color Difference $\Delta E^*ab$ , $\Delta E^*uv$ , $\Delta E^*94$ , $\Delta E^*cmc(2:1)$ , $\Delta E^*cmc(1:1)$ , $\Delta E^*00v$ ,	
Formula $\Delta E(Hunter)$	
Other Colorimetric WI(ASTM E313, CIE/ISO, AATCC, Hunter),	Other Colorimetric
Index YI(ASTM D1925, ASTM 313),	Index
TI(ASTM E313, CIE/ISO),	
Metamerism Index MI, Staining Fastness, Color Fastness, Color	
Strength, Opacity	
Observer Angle 2°/10°	Observer Angle
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	Displayed Data
Difference Values/Graph, PASS/FAIL Result, Color Offset	1 7
Measuring Time 2.6s	Measuring Time
Repeatability MAV/SCI: ΔE*≤0.03	
Inter-instrument MAV/SCI: ΔE*≤0.15	, ,
Error	Error

Measurement Mode	Single Measurement, Average Measurement	
Locating Method	Camera View Finder 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	0~40°C, 0~85%RH (no condensing), Altitude < 2000m	
Environment	•	
Storage	-20~50°C, 0~85%RH (no condensing)	
Environment		
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	
Notes: The specifications are subject to change without notice.		

## **Application Industry**

Grating spectrophotometer can easily achieve color transferring, and be used as a precision instrument for color matching system. It's widely used in plastics, electronics, painting, ink, textile and garment, printing and dyeing, printing paper, automotive, medical, cosmetics and food industries, scientific research institutes, schools and laboratories.