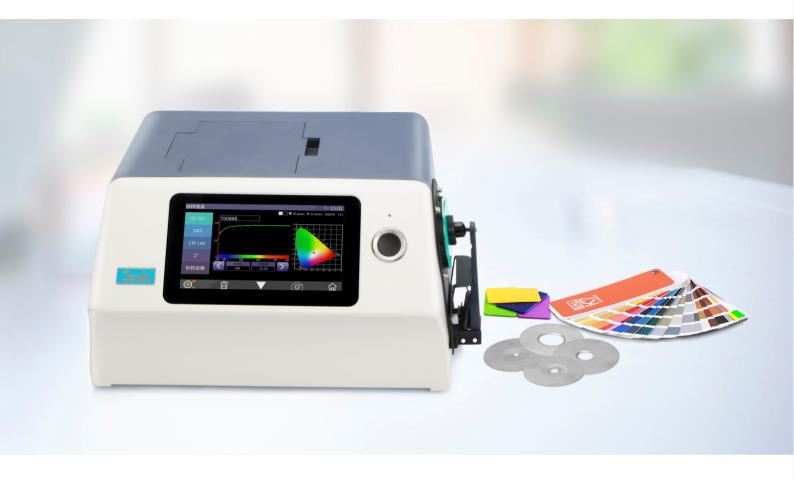
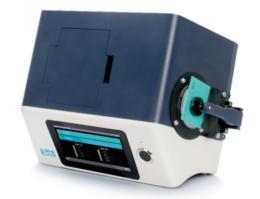


GRATING SPECTROPHOTOMETER



YS6060 Benchtop Grating Spectrophotometer

YS6060 is a benchtop grating spectrophotometer which is developed by 3nh independently with propietary intellectual property. YS6060 has many features, like 7 inches TFT capacitive touch screen display, full illuminants, reflective d/8 and transmissive d/0 geometry(including or excluding UV). With very stable and precise color measurement, large storage and powerful PC software all makes YS6060 ideal for color analysis within R&D and laboratory environments.









USB/Bluetooth 2.1



Wavelength range 360nm – 780nm



Built-in camera locating







PRODUCT FEATURES

- 1. Double Array 256 Image Element CMOS Sensor; Long life-span stable LED, UV LED and xenon lamp.
- 2. With reflectance and transmittance spectrum, accurate L*a*b value, good to calculate color formula and do precise color transmission.
- 3. Auto-identify measuring aperture. Freely switchable between 4 measuring apertures: ϕ 25.4mm/15mm 8mm/4mm. Users can also customize apertures.
- 4. Built-in temperature sensor to monitor and compensate the measuring temperature to ensure the measurement more precision.
- 5. Wavelength range 360nm 780nm. Built-in 400nm cut off/420nm cut off/460nm cut off (only xenon lamp edition), more professional in UV measurement.
- 6. Independent light source detector, continuously monitor the change of light sources to ensure the light source reliable.
- 7. Multiple accessories, sample holders, fixation frame, suitable to more working condition.
- 8. More powerful extended functions with the PC software.



PRODUCT HIGHIGHTS



Plastic Sample

Reflectance Measurement: Adopt D/8° Geometry, conform to ISO7724/1, CIE, ASTM, DIN and JIS standard.



Transmissive Sample

Transmittance Measurement: Adopt D/0° Geometry, conform to ISO, CIE. ASTM and DIN standard.



Liquid, Powder, Solid Sample Measuring Apertures Measurement

360-780nm wide wavelength range measurement, professional UV sample measurement.



Auto-indentify the apertures, 25.4/15/8/4mm four apertures freely switch. Special aperture can be customised.

APPLICATION INDUSTRY

YS6060 benchtop spectrophotometer is used to do precise color analysis and transmission in laboratories. It can be widely applied in different industries, such as plastics, electronics, paint and ink, printing, garments, leather, paper, auto, medical, cosmetics, food, science institutes, laboratories.















Automobibe

Leather

Plastics

Paint

Food stuff

Laboratory

Others

YS6060Specification

Optical Geometry: Reflectance: d/8 (SCI⪰ Include UV/Exclude UV) Transmittance: d/0 (SCI⪰ Include UV/Exclude UV) Conforms to CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7

Integrating Sphere Size: \$\Phi154mm\$

Light Source Device: 360nm-780nm Combined LED Lamp, 400nm cut-off, 420nm cut-off, UV Lamp

Sensor: 256 Image Element Double Array CMOS Image Sensor

Light Source Device: 360nm-780nm Combined LED Lamp, 400nm cut-off, 420nm cut-off, UV Lamp

Wavelength Pitch: 10nm

Semiband Width: 10nm

Reflectance Range:0~200%

Measuring Aperture: Reflective: \$\phi 30mm/\Phi 25.4mm, \$\phi 18mm/\Phi 15mm, \$\phi 10mm/\Phi 8mm, \$\phi 6mm/\Phi 4mm; Transmissive: \$\phi 30mm/\Phi 25.4mm;

Specular Component: Reflectance: SCI&SCE Transmittance: SCI&SCE

 $\textbf{Color Space}: CIE \ LAB, XYZ, Yxy, LCh, CIE \ LUV, Musell, s-RGB, Hunter Lab, \beta xy, DIN$

Color Difference Formula: ΔE ab, ΔE uv, ΔE 94, ΔE cmc(2:1), ΔE cmc(1:1), ΔE 00, DINΔE99, ΔE(Hunter)

Colorimetric Index: WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, Gardner Index, Pt-Co Index, 555 Index,

Observer Angle: 2°&10°

Illuminants: D65A.C.D50.D55.D75.F1.F2.F3.F4.F5.F6.F7.F8.F9.F10.F11.F12

Displayed Data: Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset

Measurement time: About 3 s (simultaneous measurement SCI / SCE about 6 s)

Spectral reflectance: Φ25.4mm/SCI Standard deviation within 0.04% (400 nm to 700 nm: within 0.04%)

Chromaticity value: \$\Phi25.4mm/SCI\$ Repeatability

Standard deviation within ΔE^* ab 0.01 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)

Spectral Transmittance: \$\Phi 25.4\text{mm/SCI}\$ Standard deviation within 0.05% (400 nm to 700 nm: within 0.04%)

Chromaticity value: \$\Phi25.4mm/SCI\$ Standard deviation within ΔE^* ab 0.02 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)

Inter-instrument Error: Φ25.4mm/SCI Within ΔE*ab 0.12 (Average for 12 BCRA Series II color tiles)

Size:370X300X200mm

Weight: 9.6kg

Power Supply: DC 24V, 2A Power Adapter

Light Source Device Life: 5 years, more than 3 million times measurements.

Screen: 7" TFT Capacitive Screen-touch Display

Data Port: USB & Bluetooth

Data Storage Capacity: Standard: 5000 Pcs; Sample: 40000 Pcs. (One PCS can include both SCI and SCE)

Language: English & Chinese

Working Environment: Temperature: 0~40°C; Humidity: 0~85% (No Condensation)

Storage Environment: Temperature: -20~50°C; Humidity: 0~85% (No Condensation)

Standard Accessory: White and Black Calibration Board, Checking Green Board, Sample Holder, Ф4mm, Ф8mm, Ф15mm, Ф25.4mm Aperture, Power Adapter, USB Cable, User Guide, PC Software

Optional Accessory: Micro-printer, Transmissive Test Clamp Component



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