

3nh

Start a new era of intelligent color measurement

TO COST-EFFECTIVE, XENON LAMP OF SPECTROPHOTOMETER RECOMMENDED

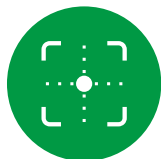
Expert measurement



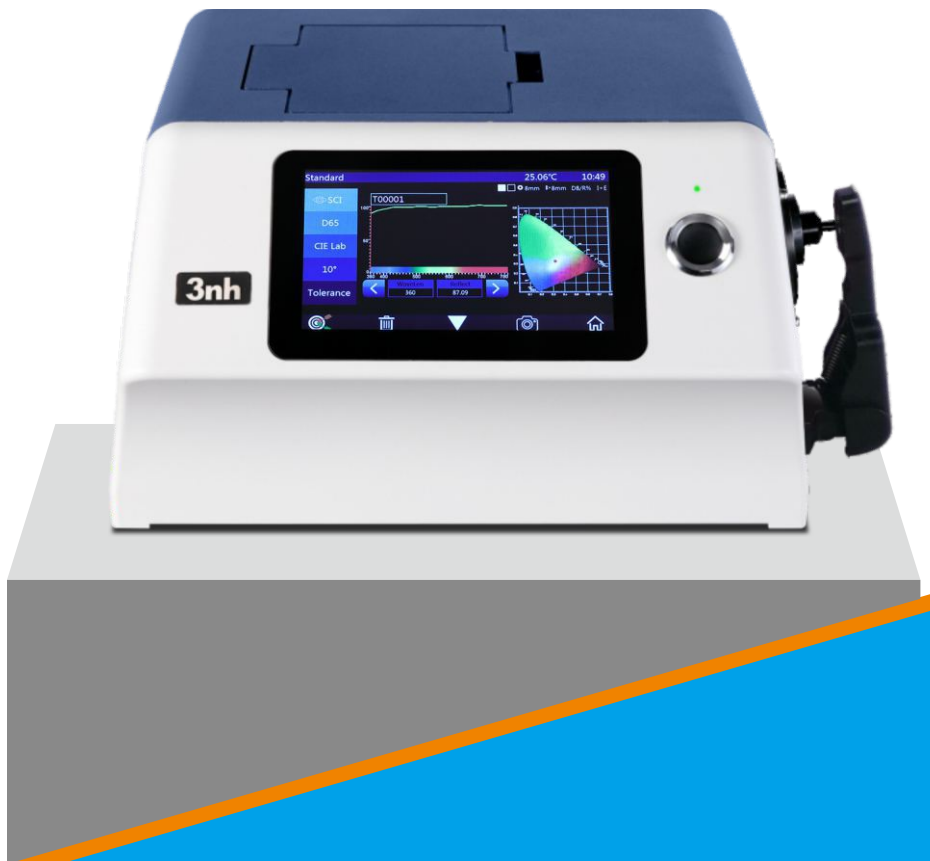
Concave Grating



Concave Grating



camera locating



YS 6080 is a benchtop grating spectrophotometer which is developed by 3nh independently with independent intellectual property. YS6080 has powerful features, accurate measurement, high configuration of hardware, 7 inches TFT capacitive touch screen display, full illuminants, reflected/d and transmissive/d/0 geometry (including or excluding UV). Large storage and powerful PC software all makes YS6080 ideal for color accurate analysis and transmission in laboratory.



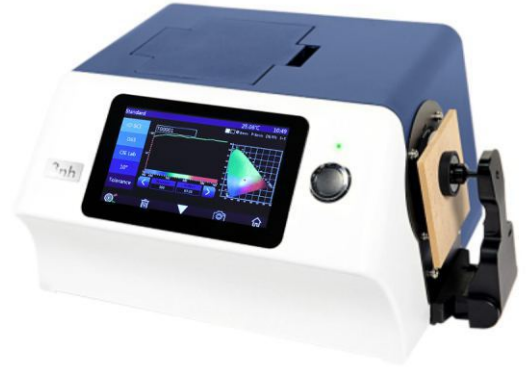
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PRODUCT FEATURES

- 1、 High configuration of hardware: 7 inches TFT Color Capacitive Touch-screen Display; Bluetooth 2.1; Concave Grating.
- 2、 Double Array 256 Image Element CMOS Sensor; Long life-span stable xenon lamp.
- 3、 With reflective and transmissive spectrum, accurate Lab value, good to calculate color formula and do precise color transmission.
- 4、 Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm. Users also can customize apertures.
- 5、 Built-in temperature sensor to monitor and compensate the measuring temperature to ensure the measurement more precision.
- 6、 Wavelength range 360nm – 780nm. Built-in 400nm/420nm/460nm cut off Xenon lamp, more professional in UV measurement.
- 7、 Independent light source detector, continuously monitor the condition of light sources to ensure the light source reliable.
- 8、 Multiple measurement modes: Quality Management Mode, Sample Mode; Meet more users' requirement.
- 9、 A variety of optional accessories: Reflection sample holding tool, transmission fixture, micro 4mm aperture transmission test components, instrument inversion test components, applicable to more working conditions.
- 10、 Big capacity data storage, for 20000 pieces test result.
- 11、 Built-in camera locating.
- 12、 More powerful extended functions at the PC software.

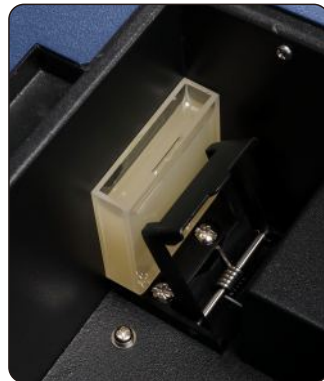


PRODUCT FEATURES



plastic sample

Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle) Conforms to ISO7724/ 1、 CIE、 ASTM、 DIN and JIS



Transmissive samples

Transmittance: di:0°, de:0° (diffuse illumination: 0° viewing); Conforms to ISO、 CIE、 ASTM 、 DIN.



Liquid, Powder, Solid samples



Measuring Aperture

Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm.

APPLICATION INDUSTRY

YS 6003 benchtop spectrophotometer is designed for accurate analysis and transmission of laboratory color and appearance: It's widely used in plastics, paints, inks, textile and garment printing, dyeing, printing paper, automotive, medical, cosmetics, food industries, scientific research institutions and laboratories.



Automobile



Leather



Plastics



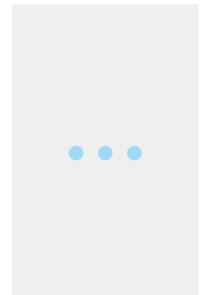
Paint



Food stuff



Laboratory



Others

Model: YS6080(Pulsed xenon lamp)

Optical Geometry: Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle);SCI (specular component included)/SCE (specular component excluded);Include UV / excluded UV light source; Transmittance: di:0°, de:0° (diffuse illumination: 0° viewing);SCI (specular component included)/SCE (specular component excluded);Include UV / excluded UV light source; Haze(ASTM D1003); Conforms to CIE No. 15, GB/T 3978,GB 2893,GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7

Integrating Sphere Size: Φ 154mm

Light Source Device: 360nm-780nm Xenon Lamp, 400nm cut-off Xenon Lamp,420nm cut-off Xenon Lamp,460nm cut-off Xenon Lamp

Spectrophotometric Mode: Concave Grating

Sensor: 256 Image Element Double Array CMOS Image Sensor

Wavelength Range: 360-780nm

Wavelength Pitch: 10nm

Semiband Width: 5nm

Reflectance Range: 0~200%

Measuring Aperture: Reflective : Φ30mm/Φ25.4mm, Φ18mm/Φ15mm, Φ10mm/Φ8mm, Φ6mm/Φ4mm;Transmissive : Φ30mm/Φ25mm;
Remark: 1. Automatic identification of switch caliber 2. Customized Configuration caliber and lens position

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

Color Space: CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB, Munsell, s-RGB, HunterLab, DIN, βxy

Color Difference Formula: ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00v , ΔE (Hunter), DIN $\Delta E99$

Colorimetric Index: WI (ASTM E313, CIE/ISO, AATCC, Hunter),YI (ASTM D1925, ASTM 313), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity,Gardner Index, APHA/Hazen/Pt-Co Index, 555 Index, Haze(ASTM D1003) , Saybolt

Observer Angle: 2° & 10°

Illuminants: D65, A, C, UV, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12 , CWF,DLF,TL83,TL84,TPL5,U30

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

Measuring Time: About 2.4s (Measure SCI & SCE about 5s)

Repeatability: Spectral reflectance: Φ25.4mm/SCI, Standard deviation within 0.06% (400 nm to 700 nm: within 0.05%)Chromaticity value: Φ25.4mm/SCI, Standard deviation within ΔE^*ab 0.012 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)Spectral Transmittance: Φ25.4mm/SCI, Standard deviation within 0.06% (400 nm to 700 nm: within 0.06%)Chromaticity value: Φ25.4mm/SCI, Standard deviation within ΔE^*ab 0.015 (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: 370×300×200mm

Weight: About 9.6kg

Power Supply: DC 24V, 3A Power Adapter

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

Display: 7" TFT Capacitive Screen-touch Display

Data Port: USB & Bluetooth & Print serial port

Data Storage: Standard 5000 Pcs, Sample 40000 Pcs

Language: Simplified Chinese, Traditional Chinese, English, (Optional Customized German, French and Spanish)

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

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

Standard Accessory: Power Adapter, User Guide, CD Disk(PC Software), USB cable, Standard Calibration Board, Black Calibration Cavity, Transmission black baffle, Sample holder, 25.4 caliber, 15 caliber, 8 caliber, 4 caliber,Transmissive Test Component

Optional Accessory: Micro-printer, Micro Aperture(4mm) transmission test clamp component, Instrument inversion components,Culture dish

Notes: The specifications are subject to change without notice.



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