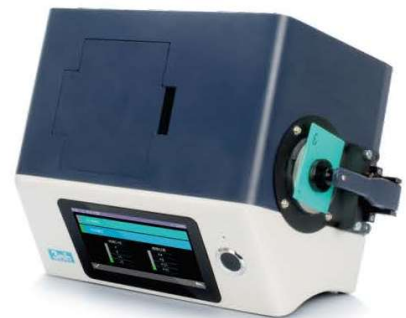




YS6080 Xenon lamp Benchtop Spectrophotometer

YS6080 is a benchtop grating spectrophotometer which is developed by 3nh independently with independent intellectual property. YS6080 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 YS6080 ideal for color analysis within R&D and laboratory environments.



7 inches TFT Capacitive Touch-screen



USB/Bluetooth 2.1



Wavelength range 360nm – 780nm



Built-in camera locating



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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: $\Phi 25.4\text{mm}/8\text{mm}/4\text{mm}$. 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. Multiple accessories, sample holders, fixation clamp, suitable to more working condition.
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 HIGHLIGHTS



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 Measurement

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



Measuring Apertures

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

APPLICATION INDUSTRIES

YS6080 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.



Automobile



Leather



Plastics



Paint



Food stuff



Laboratory



Others

SPECIFICATION PARAMETER

Model	YS6080 (Pulsed xenon lamp)
Optical Geometry	Reflectance: d/8 (SCI&SCE; Include UV/Exclude UV). Transmittance: d/0/45 (SCI&SCE; Include UV/Exclude UV); 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, 420nm & 460nm cut-off Xenon Lamp
Spectrophotometric Mode	Concave Grating
Sensor/Detector	256 Image Element Double Array CMOS Image Sensor/6 silicon photo cells detector
Wavelength Range & Pitch	360-780nm & 10nm
Semiband Width	5nm
Reflectance Range	0~200%
Measuring Aperture	Reflective: Φ30mm/Φ25.4mm, Φ10mm/Φ8mm, Φ6mm/Φ4mm; Transmissive: Φ30mm/Φ25.4mm; Remark: 1. Automatic identification of switch caliber 2. Customized Configuration caliber and lens position
Specular Component	Reflectance: SCI&SCE, Transmittance: SCI&SCE
Color Space	L*a*b* (CIE Lab), L*C*h, XYZ, Yxy, LCh99, Lab 99, ΔE*94 (CIE 1994), L*u*v* (CIE LUV), L*u'v', Hunter LAB, Munsell, s-RGB, Hunter Lab, DIN, βxy
Color Difference Formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc (2:1), ΔE*cmc (1:1), ΔE*00, ΔE(Hunter), DIN ΔE99
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, Pt-Co Index, 555 Index, Haze (ASTM D1003). User Index (Available through Pc Software)
Observer Angle	2° & 10°
Illuminants	D65, A, C, UV, 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
Measuring Time	About 2.4s (Measure SCI & SCE about 5s)
Repeatability	Spectral reflectance: Φ25.4mm/SCI, Standard deviation within 0.07% (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) Spectral Transmittance: Φ25.4mm/SCI, Standard deviation within 0.07% (400 nm to 700 nm: within 0.07%) Chromaticity value: Φ25.4mm/SCI, Standard deviation within ΔE*ab 0.018 (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	Pulsed xenon lamp, Device Life 5 years, more than 3 million times measurements.
Display	7" TFT Capacitive Screen-touch Display
Data Port	USB & Print serial port
Data Storage	Standard 2000 Pcs, Sample 20000 Pcs
Language	Simplified Chinese, Traditional Chinese, English,
Working Environment	Temperature: 0~40°; Humidity: 0~85% (No Condensation)
Storage Environment	Temperature: -20~50°; Humidity: 0~85% (No Condensation)
Standard Accessory	Power Adapter, User Guide, CD Disk (PC Software), USB cable, Custom Standard Calibration Board, Black Calibration Cavity, Transmission black baffle, Sample holder, 25.4 caliber, 8 caliber, 4 caliber,
Optional Accessory	Micro-printer, Transmissive Test Clamp Component, Micro Aperture(4mm) transmission test clamp component, Instrument inversion components
Notes: The specifications are subject to change without notice.	



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