

MACHINE AND EQUIPMENT · PRODUCT DATASHEET

YS4510 Plus 45/0 spectrophotometer

YS4510 Plus spectrophotometer with 45/0 geometrical optics structure(45 ring-shaped illumination ,vertical viewing), comply with C I E N o . 1 5. Adopting concave grating light...



CATEGORY	Machine and Equipment
SUB-CATEGORY	Lab Equipment
AVAILABILITY	1 in stock
MANUFACTURED	Jan 20, 2026

Description

YS4510 Plus spectrophotometer with 45/0 geometrical optics structure(45 ring-shaped illumination ,vertical viewing), comply with C I E N o . 1 5. Adopting concave grating light splitting method. accurately measure the reflectivity and various chromaticity data of samples. users can customize the measurement aperture($\Phi 8$ / $\Phi 4$ / $\Phi 2$ m m) according to the sample measuring demands, meet the industry accurate color measurement and quality control.

Technical specification

Model: YS4510 Plus 45/0 Spectrophotometer

Illumination/Observation system: 45/0(45 ring-shaped illumination, vertical viewing); Comply with CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7,GB 2893, GB/T 18833

Features: Common spectrophotometer with customized one aperture, like 8mm aperture and apply in paints, inks, textiles, garments, printing and dyeing, printing etc. industries for color transfer and quality control.

Integrating Sphere Size: $\Phi 48$ mm

Light Source: Combined LED Light

Spectral separation device: Concave Grating

Detector: 256 Image Element Double Array CMOS Image Sensor

Wavelength Range: 400~700nm

Wavelength Pitch: 10nm

Half Bandwidth: 10nm

Reflectance Range: 0~200%

Measuring Aperture: Customized One Aperture: MAV:Φ8mm/Φ10mm; SAV:Φ4mm/Φ5mm; SAV:Φ2mm/Φ3mm;

Color Space: CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB,βxy

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

Observer Angle: 2°/10°

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

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

Measurement Time: About 1.5s

Size(L*W*H): 184*77*105mm

Weight: About 600g

Data memory: Standard 500 Pcs, Sample 20000 Pcs

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

Standard Accessory: Power Adapter, USB Cable, Built-in li-ion battery, User Manual, software(download from the website)White and Black Calibration Board, Protective Cover.

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