



# VERTEX

## SPECTROPHOTOMETER YS3060



YS3060 is independently developed by 3nh, who has completed intellectual property rights. With full set of light sources, dual apertures (8 & 4mm), SCI/SCE, UV, USB/Bluetooth, it has high accuracy and large storage, very suitable for lab color analysis and transmission. Accuracy, stability, powerful functions make it in the leading position of color industry.



Con-cave Grating



USB/Bluetooth



LED/UV light



Camera Locating

## FEATURES:

- D/8 geometrical optics, conforms with CIE No.15, GB/T 3978, GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil.
- Use long life and low power consumption combined LED light source
- Switchable 8mm/4mm aperture, support both SCI and SCE at the same times
- Measure sample spectra, accurate Lab data, can be used in color matching and accurate color transmission
- High electronic hardware configuration: 3.5-inch TFT color LCD, Capacitive Touch Screen, concave grating, 256 linage Element Double Arrays CMOS Image Sensor
- Super stain-resistant and stable standard white calibration plate
- Large capacity storage space, over 20,000 measurement data
- 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 measurements
- Camera Locating Function, better position
- PC software has a powerful function extension

## SPECIFICATION:

**Model:** YS3060 Spectrophotometer

**Optical Geometry:** Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)

**Integrating Sphere Size:** 48mm

**Light Source:** Combined LED Light, UV Light

**Spectrophotometric Mode:** Concave Grating

**Sensor:** 256 Image Element Double Array CMOS Image Sensor

**Wavelength Range:** 400-700nm

**Wavelength Interval:** 10nm

**Semiband Width:** 10nm

**Measured Reflectance Range:** 0-200%

**Measuring Aperture:** Dual Aperture: 10mm/8mm & 5mm/4mm

**Specular Component:** SCI&SCE

**Color Space:** CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB

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

**Other Colorimetric Index:** WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index MI, Staining Fastness, Color Fastness, Color Strength, Opacity, 8° Glossiness

**Illuminant:** D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11,

F12, CWF, U30, TL83, TL84, U35

**Displayed Data:** Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset

**Observer Angle:** 2°/10°

**Measuring Time:** 1.5s

**Repeatability:** Spectral reflectance: MAV/SCI, standard deviation within 0.08%(400~ 700nm: within 0.18%)

**Chromaticity value:** MAV/SCI, within $\Delta E^*ab$  0.03(After calibration, measure the average value of the white board 30 times each 5S.)

**Inter-instrument agreement:** MAV/SCI, within $\Delta E^*ab$  0.15(Average value for 12 BCRA series II color tiles)

**Measurement mode:** single measurement, average measurement(2-99 times)

**Locating Method:** Camera 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

**Interface:** USB/RS-232, Bluetooth® dual mode

**Data Storage:** Standard 1000 Pcs, Sample 28000 Pcs

**Language:** English, Chinese

**Operating Environment:**0~40°C, 0~85%RH (no condensing), Altitude < 2000m

**Storage Environment:** -20~50°C, 0~85%RH (no condensing)

**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

#### APPLICATION INDUSTRIES



Automobile

Leather

Plastics

Paint

Food stuff

Laboratory

Others



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Actual product may differ in color and appearance due to constant development.