

# Portable Spectrophotometer



## Product Info :

The portable spectrophotometer brings advanced and detailed analysis techniques for inspecting colour quality in a wide spectrum of industries. It is used to test and evaluate the different aspects of a colour used in coating, painting, plating etc. It can deliver test reports on the basis of not only the overview appearance of colour but dive deeper to assess the wavelength changes too. Colour is the one parameter of a product that plays different roles in the lifecycle of any material. From improving the appearance to protection from the surrounding environment, paints, and coatings have been very important for a product to survive for long. Today Colour is not only applied to beautify a product but to make its identity prominent in the eyes of customers. Hence, it is very important that the colour quality remains high and is standardised as per the industry set rules.

With growing competition comes a demand to be presentable and keep your best foot forward when it's about the quality, so only assessing the external colour appearance is not enough. One must evaluate the deep inside of the colour structure to improve the quality, maintain consistency and be presentable to the market for a longer time.

For this, advanced technology and devices are the need of the hour. Continuing this legacy we present, Portable spectrophotometer.

Spectrophotometer tests and calculates the photons of light reflected back by a spectrum of colours (mixture of all visible colours) and white or black colour. It can not only mark the tiniest differences between similar-looking colours but also can view the detailed distinction in them with regards to their wavelength, reflection and refraction angle.

## TECHNICAL DATA :

- Model Number: Pc800
- Illumination/observation system: 45/0 method (45 ring-shaped illuminations, vertical viewing)
- Comply with CIE No. 15, GB/T 3978
- Integrating Sphere Size:  $\Phi$ 58mm
- Light Source: combined LED sources
- Sensor: Silicon photodiode array
- Wavelength range: 400~700nm
- Wavelength interval: 10nm
- Reflectance range: 0~200%
- Measuring Aperture:  $\Phi$ 8mm
- Colour Space: CIE LAB, XYZ, YXY, LCh, CIE LUV
- Color Difference Formula:  $\Delta E^*_{ab}$ ,  $\Delta E^*_{uv}$ ,  $\Delta E^*_{94}$ ,  $\Delta E^*_{cmc}$  (2:1),  $\Delta E^*_{cmc}$  (1:1),  $\Delta E^*_{00}$
- Other Chromaticity Data: WI(ASTM E313,CIE/ISO, AATCC, Hunter), YI(ASTM D1925,ASTM 313), TI (ASTM E313,CIE/ISO), Metamerism Index (Mt), Color Stain, Color Fastness
- Observer: 2°/10°
- Illuminant: D65, A, C, D50, D55, D75, F2, F6, F7, F8, F10, F11, F12
- Display Data: Spectral Value/Graph, Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
- Measurement Time: 1.5 s
- Colour Space: CIE LAB, XYZ, YXY, LCh, CIE LUV
- Color Difference Formula:  $\Delta E^*_{ab}$ ,  $\Delta E^*_{uv}$ ,  $\Delta E^*_{94}$ ,  $\Delta E^*_{cmc}$  (2:1),  $\Delta E^*_{cmc}$  (1:1),  $\Delta E^*_{00}$
- Observer: 2°/10°

## FEATURES :

- Compact and portable size for easy user handling
- High accuracy for better quality assurance in colour inspection
- Capable of assessing with deep dive technology that allows testing, reflection, transmission, gloss angle and transparency of any object or colour
- Can be used in a wide range of industries, labs and educational institutions
- Comes with a thermal printer as a substitute option
- Provide complete spectrum reflectance curve, Input L, a, b value manually
- Standard Accessory: Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap
- Optional Accessory: Micro Printer, Universal Test Component

## Our Valuable Customer



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