Spectrophotometer - TP 800
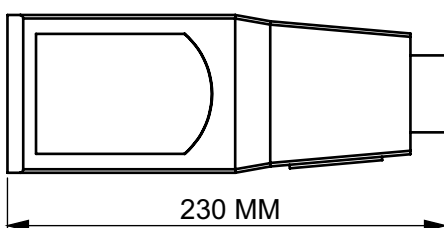
Data output

Capacitive Touchscreen

Silicon photo diode array sensor
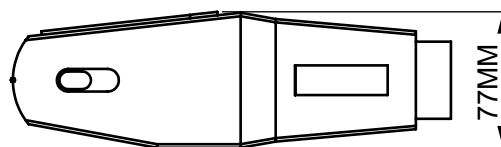
Model No. TP800

Spectrophotometer is a consistent tool useful for performing several measurements on variety of samples of colors such as white and black, dark and light and several other color boards. They are primarily used to reflect the measurements and best suited for the sophisticated color analysis such as the problem of metamerism. Spectrophotometer TP800 complies with various CIE, CNS, ASTM E313, AATCC, ASTM D1925 Standards.

- Capacitive Touchscreen featured
- Software based output of test results
- Two standard observer angles
- Visible Spectrum 400 ~ 700 nm Reflectance curve
- Effective Homogenization ray of lights with Oversized Integrating sphere
- 45/0 geometrical optics structure
- Large memory for extensive storage of more than 10000 data.
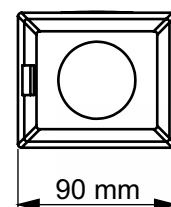- Silicon photo diode array sensor

The display of the instrument displays a lot of data and formats such as such as graphical format of spectral value, value of color difference/graph, color offset, pass/fail criteria, color simulation, colorimetric value.

230 MM

77MM

90 mm

Top View

Front View

Side View

TP800 Spectrophotometer is a precise colorimeter with easy to use interface and stable performance. Portable spectrophotometers work on the basis of multiple sensors to measure the spectral reflectance color across the wavelength spectrum of 400mm to 700mm and hence, are more accurate and precise.

Key Specifications:

Illumination/Observation system	45/0 method
Integrating Sphere Size	58 mm (Diameter)
Light Sources	Combined LED sources
Sensor	Silicon photodiode array
Illuminant	D65,D50, A,C,D55, D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12 total 18 light sources.
Color Space Indices	XYZ, CIE LAB, LCh, Yxy, HunterLAB,CIE LUV
Minimum Interval Between measurement	1.5 s
Measuring Aperture	8 mm (Diameter)
Wavelength range	400～700 nm
Repeatability	Standard deviation with in $\Delta E * ab0.04$ (avg. on 30 measurement with standard white plate.)

Highlights:

Battery	Li-on battery (Lithium Ion)
Lamp Life	5 years approx.
Touchscreen Display	Capacitive
Communication Port	USB
Storage	Upto 15000 sample and 1000 standards
Dimensions	90x77x230 mm

* Can test powder and liquid using
  (Universal Test Component optional)

Standard Accessory:
- AC Adapter; Li-ion Battery;
- Operation Manual;
- Software CD;
- USB Cable;
- White & Black Calibration Cover;
- Protective Cover & Wrist Strap

Optional Accessory: Universal Test Components for liquid, powder and particle test, Micro printer, Powder test box

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