



# SC-800



## Introduction

SC-800 series are able to measure luminance, color coordinates and correlated color temperatures of display products (LCD/LED/OLED/Quantum Dot) fast and accurately. Its wide measuring range 0.001 ~ 20,000 cd/m<sup>2</sup> enables to measure low luminance 0.001 cd/m<sup>2</sup> which makes it an excellent equipment for measuring contrast range of all display in addition, it is light and convenient to use to all-in-one body design.

## Features

- All-in-one body Design
- Convenient to use due to compact size and light weight and easy to mount on the facility
- easy to measure with PC program or SMART PHONE
- Offer a smart phone application to all user for free (only android)
- High precision and accuracy with fast measuring speed
- Auto Zero Calibration
- Measure the value precisely at low luminance applying noise removal technology (Measuring Range : 0.001 ~ 20,000 cd/m<sup>2</sup>)
- Fast measuring is available by reducing time loss from range conversion
- User can set up to 99 calibration channels directly

## Application

- Object - To measure luminance, color coordinates and correlated color temperatures of display products (LCD/LED/OLED/Quantum Dot) and LED lighting
- Measurement - Luminance, Chromaticity, Correlated Color Temperature
- Adjustment - White balance, Uniformity, Contrast, Gamma

## DEMEINON



SPECIFICATION	
Photo detector	Si-Photo diode
Spectral responsivity	CIE1931 color matching function
Measurement area	SC-800s : Ø 10 mm
	SC-800 : Ø 27 mm
	SC-800L : Ø 100 mm
Measurement distance	<5 mm
Incidence angle	SC-800s : ± 5°
	SC-800 : ± 2.5°
	SC-800L : ± 2.5°
Luminance	Measurement range : 0.001 0 ~ 20,000 cd/m <sup>2</sup>
	Accuracy (for Std.LCD) : ± 1.5 % + 0.001 0 cd/m <sup>2</sup>
	Repeatability (2σ) (for Std.LCD) : 0.001 0 ~ 0.099 9 cd/m <sup>2</sup> 1 % + 0.001 0 cd/m <sup>2</sup> 0.100 0 ~ 0.999 9 cd/m <sup>2</sup> 0.2 % + 0.001 0 cd/m <sup>2</sup> 1.000 0 ~ 20,000 cd/m <sup>2</sup> 0.1 % + 0.001 0 cd/m <sup>2</sup>
Chromaticity	Measurement range : 0.010 0 ~ 20,000 cd/m <sup>2</sup>
	Accuracy (for Std.LCD) : ± 0.002
	Repeatability (2σ) (for Std.LCD) : 0.010 0 ~ 0.099 9 cd/m <sup>2</sup> 0.003 5 0.100 0 ~ 0.999 9 cd/m <sup>2</sup> 0.001 5 1.000 0 ~ 9.999 9 cd/m <sup>2</sup> 0.000 3 10.000 0 ~ 20,000 cd/m <sup>2</sup> 0.000 2
Measurement mode	xyL <sub>v</sub> , XYZ, u <sup>*</sup> v <sup>*</sup> L <sub>v</sub> , T <sub>au</sub> vL <sub>v</sub>
Measurement speed (for 60 Hz)	Fast : 33 ms/sample
	Slow : 250 ms/sample
Measurement frequency (Vertical frequency of Display)	40 ~ 99 Hz (Default : 60 Hz)
Interface	RS-232C (115,200 bps or below)
Zero Calibration	Auto
Operating condition	Temperature : 18 ~ 28 °C
	Humidity : 70 % R.H. or less
Storage condition	Temperature : 0 ~ 40 °C
	Humidity : 70 % R.H. or less
Weight	370 g (Based on normal type)
Power	DC 6 V 1 A Adapter

## Accessories

- DC Adaptor
- RS-232C Cable
- USB to RS-232C Cable
- USB Cable (for PC)
- OTG gender (for smart phone)

## Sales agency