



# 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 ~ 9.999 9 cd/m <sup>2</sup>	0.2 % + 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 ~ 9.999 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