



INTRODUCTION

SC-700s is able to measure luminance, color coordinates and correlated color temperature of display products (LCD/ LED/ OLED/ Quantum Dot) fast and accurately. Its wide measuring range $0.001 \sim 20~000~cd/m^2$ enables to measure low luminance $0.001~cd/m^2$ which makes it an excellent equipment for measuring contrast range of display. In addition, it is light and convenient to use due 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 check the measuring values in real time from the display on the probe
- Portable with rechargeable battery (option)
- High precision and accuracy with fast measuring speed
- Auto Zero Calibration

- Measure the value precisely at low luminance applying noise removal technology

 (Management Barrary 0.001, 20.000 at /m²)
 - (Measuring Range: 0.001 ~ 20 000 cd/m²)
- Fast measuring is available by removing time loss from range conversion and continuous measuring is available without time loss applying Switched-Input Technology
- User can set up to 99 calibration channels directly
- Flicker measuring is available (option)

APPLICATIONS

- Object

 To measure luminance, color coordinates and correlated color temperatures of display products
 (OLED/ LED/ LCD/Quantum Dot) and LED lighting
- Measurement Luminance, Chromaticity, Correlated Color Temperature, Flicker
- Adjustment White balance, Uniformity, Contrast, Gamma
- ※ Possible to select measurement mode xyLv, XYZ, u'v'Lv, T △ uvLv



	SPECII	FICATION	
Photo detector		Si-Photo diode	
Spectral responsivity		CIE1931 color matching function	
Measurement area		Ф10 mm	
Measurement distance		$30 \pm 5 \text{ mm}$	
Incidence angle		± 5°	
Display range	Luminance	0.000 1 ~ 20 000 cd/m ²	
	Chromaticity	4 digit	
Luminance (23 ± 2 ℃, 50 ± 10 % R.H)	Measurement range	Normal Mode 0.001 ~ 20 000 cd/m²	Fast Mode 0.015 ~ 20 000 cd/m²
	Accuracy (for Std.Cal.LCD)	± 2 % + 0.000 5 cd/m²	
	Repeatability (20) (for Std.A)	0.01 cd/m ² 0.1 cd/m ² 1 cd/m ² 10 cd/m ² ~	: 1.0 % + 0.000 5 cd/m ² : 0.5 % + 0.000 5 cd/m ² : 0.2 % + 0.000 5 cd/m ² : 0.1 % + 0.000 5 cd/m ²
Chromaticity (23 \pm 2 °C, 50 \pm 10 % R.H)	Measurement range	0.1 ~ 20 000 cd/m ²	
	Accuracy (for Std.Cal.LCD)	± 0.003	
	Repeatability (20) (for Std.A)	0.1 cd/m ² 1 cd/m ² ~	: 0.002 : 0.001
Measurement mode		xyLv, XYZ, u'v'Lv, ΤΔuvLv	
Measurement speed (for 60 Hz)		Normal Mode 0.001 ~ 1.499 cd/m² 1.5 ~ 14.99 cd/m² 15 ~ 20 000 cd/m² Fast Mode 0.015 ~ 0.099 cd/m² 0.1 ~ 5.999 cd/m² 6 ~ 20 000 cd/m²	: 0.6 Samples/s : 2.9 Samples/s : 20 Samples/s : 1 Samples/s : 6.7 Samples/s : 20 Samples/s
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 ℃	
	Humidity	70 % R.H. or less	
Storage condition	Temperature	0 ~ 40 °C	
	Humidity	70 % R.H. or less	
Dimension		40 mm (W) × 40 mm (H) × 230 mm (L)	
Weight		360 g	
Power		DC 5 V 1 A Adapter	

DEMENSION **ACCESSORIES & OPTION** (Unit:mm) • ACCESSORIES • OPTIONAL ACCESSORIES - DC Adaptor - Charge DC Adaptor SC-700s - RS-232C Cable - Charge Battery Pack - USB to RS-232C Cable 230 40 - Tripod Plate 115 25



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