STALWART

**Precision Colorimeter
ST-PR45**

Introduction

Stalwart R&D team concentrates on customer needs and develops series of high-cost and high-quality products. ST-PR45 is a precision colorimeter with 45°/0° viewing angle after ST-PC31, ST-PC30 colorimeter. ST-PR145 colorimeter has strong functions which applied a number of differential innovative technologies. It can measure accurately in 45° illumination/0° receiving under the SCE mode.

Features

- Built-in white plate parameters. No need to calibrate each me which can perform measurement quickly
- Double Locating: Illuminating locating and precise cross locating.
- Switchable Double Measurement End Face: Large stable end face and small concave-convex end face.
- New 45°/0° Optical Path Design: Significantly improve the measurement stability and precision.
- 8mm Measuring Aperture
- Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.
- Configure CQCS3 software. Connect PC computer to realize more functions.
- Hand-head structure: small and convenient; make the measurement easier.
- Exquisite appearance: adopts traditional and fashionable aesthetic designs.

Specification

Item	ST-PR45
Illuminating/Viewing Geometry	45°/0°
Measuring Aperture	Φ8mm
Measurement End-face	Large stable end face and small concave-convex end face
Detector	Silicon photoelectric diode
Locating	Illuminating Locating/Cross Locating
Color Space	CIEL*a*b*C*h* CIEL*a*b* CIEXYZ
Color Difference Formula	ΔE*ab ΔL*a*b* ΔE*C*h*
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	≤0.80ΔE*ab
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within ΔE*ab 0.08 Average of 30 measurements of standard white plate
Weight	500g
Dimension	205×67×80 mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	5 years, more than 1.6 million measurements
Charging Time	The first charging me is 8 hours--100% electricity
PC Software	CQCS3 Software
Printer (optional)	Miniature thermal printer

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