

STALWART

Portable Colorimeter ST-PC31



Introduction

ST-PC31 High-End Brand of Domestic Colorimeter ST-PC31 is a mainstream brand colorimeter introduced by Stalwart which has synthesized the advantages of ten more traditional imported colorimeters and has experienced ten thousands tests and applied many innovative technologies. Accurate, Stable, Exquisite and Affordable.

Features

- Leading Humanity Design and Convenient Operation Auto White and Black Calibration at Startup Structure Design in line with Ergonomics Easy-to-use Operation Interface
- Stable Measurement Performance The average fluctuation of ΔE is less than 0.06, actually more in 0.03~0.06. Portable structure design which is more conducive to keeping the instrument stable when using.
- Flexible and Accurate Locating Camera locating can solve the problem of locating a small area. The minimum width of locating is 4mm. Illumination locating is a fast, simple and convenient locating function which is the original function by Stalwart.
- More Measurement Modes Three measuring apertures for more circumstances. Five color spaces for more color schemes selection. Three light sources for more circumstances.
- PC Software—Realize More Function Expansion Stalwart has the intellectual property of PC software. The corresponding software serial number and password protection are configured in Stalwart colorimeter. Be able to? perform color difference analysis, color difference cumulative analysis, chromacity index, color sample database management, simulating object color, etc.
- Advanced Power Management Design Stalwart is the first enterprise using high capacity Li-ion battery in colorimeter. Stalwart Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more than 3000 mes on one charge to ensure the stability of long me measurements.

Specification

Item	ST-PC31
Illuminating/Viewing Geometry	8/d
Measuring Aperture	$\Phi 8\text{mm}/\Phi 4\text{mm}$
Detector	Silicon photoelectric diode CIEL*a*b*C*h* CIEL*a*b* CIEXYZ CIERGB CIEL*u*v*
Color Space	CIEL*C*h* Yellowness & Whiteness Color Fastness
Color Difference Formula	ΔE^*ab $\Delta L^*a^*b^*$ $\Delta E^*C^*h^*$ $\Delta ECIE94$ ΔE_{hunter}
Light Source	D65 D50 A
Light Source Device	LED blue light excitation
Errors Between Each Equipment	$\leq 0.40\Delta E^*ab$
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within ΔE^*ab 0.06 Average of 30 measurements of standard white plate

Specification

Weight	500g
Dimension	205×70×100 mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	5 years, more than 1.6 million measurements
Charging Time	2 hours (first me 8 hours--100% electricity)
Measuring Time	Before Recharging more than 3000 times
Operating Temperature/ Humidity Range	-10~40°C, relative humidity 0~85% with no condensation
Data Interface	USB
Extended Aperture (optional)	Φ8mm extended aperture, available for measuring concavtie surface
Printer (optional)	Miniature thermal printer