

# STALWART

## Portable Colorimeter ST-PC30



## Introduction

ST-PC30 high-quality portable colorimeter has adopted multi-channel color sensors of international brands, more stable IC platform as well as efficient and accurate algorithms to provide users with accurate and fast color management and application. ST-PC30 is also designed with ergonomics and humanized operation and it has applied for a number of patents.

## 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  $\Delta E$  is less than 0.07, actually more in 0.03~0.06. Portable structure design which is more conducive to keeping the instrument stable when using.

- **Convenient and Fast Locating**

Illumination locating is a fast, simple and convenient locating function which is the original function by Stalwart.

- **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 times on one charge to ensure the stability of long me measurement.

## Specification

Item	ST-PC30
Illuminating/Viewing Geometry	8/d
Measuring Aperture	$\Phi 8\text{mm}$
Detector	Silicon photoelectric diode
Color Space	CIEL*a*b*C*h* CIEL*a*b*
Color Difference Formula	$\Delta E^*_{ab}$ $\Delta L^*_{a^*b}$ $\Delta E^*_{C^*h}$
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	$\leq 0.40\Delta E^*_{ab}$

## Specification

Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within $\Delta E^*ab$ 0.07 Average of 30 measurements of standard white plate
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 Times	Before Recharging more than 3000 mes
Operating Temperature/ Humidity Range	-10~40°C, relative humidity 0~85% with no condensation
Data Interface	USB
Printer (optional)	Miniature thermal printer