北京凯普海泰科技有限公司
Beijing Cap High Technology Co.,Ltd.

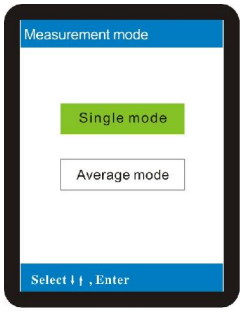
CR350 General colorimeter

Introduction:

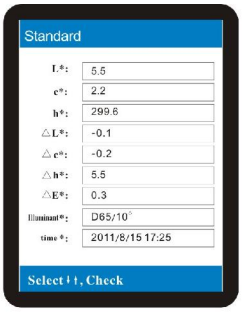
According to international CIE1931,1976 and other relevant standards and national standards. The CR350 is a new economic and practical general colorimeter, We introduce the latest imported LED light source and sensor, it has stable, durable, the characteristics of the economy.

The interface we design the menu type, because it is simple and easy to understand. Our CR350 is not only widely used on Quality department about the color difference, but also used on the school teaching, scientific research, color design.

The instrument is suitable for Plastic.Spray paint. Design. Printing. Rag trade.Dipdye and etc, it main used on comparison and analysis of color-difference and quality control.



Measurement mode



Database shows

Qualified/Unqualified

Scope of application:

- Injection colors matched and quality control in production process
- Color-difference detection and color-difference control or printing process
- The color-difference analysis of spray paint and electroplate surface
- Color-difference of different area of the metal treating surface
- Color quality inspection of batch products outdoors
- On-line monitoring of color difference in production process

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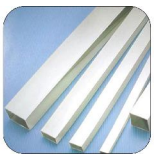
Rubber


Hardware


Building


Printing


Electrical

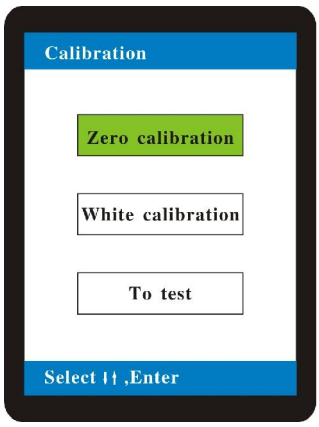

Spray-paint

■ Technical parameters:

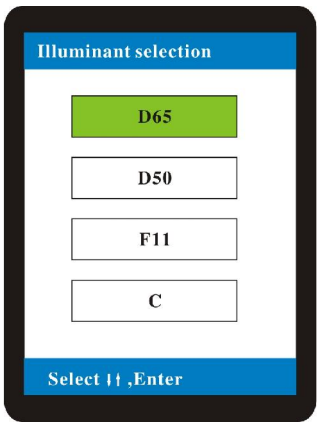
According to our many customers' request, the CR350(colorimeter) has been upgraded, the functions are more fully, so we think it would cater for the customers' requirement!

◎ Features:

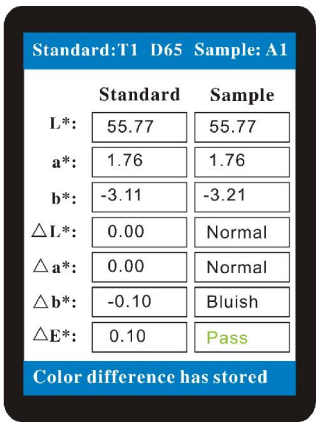
- Three languages to switch, buttons and menus operation are easy to control
- A variety of light and color space modes meet special needs of different measurement conditions
- Two calibrations: white calibration and zero calibration, the measurement data are more accurate and stable
- 1500 sets of data storage space, can check, callout, upload the data at any time



Calibration setting



Illuminant selection



the data accurate to 0.08

- Professional software can analysis the color

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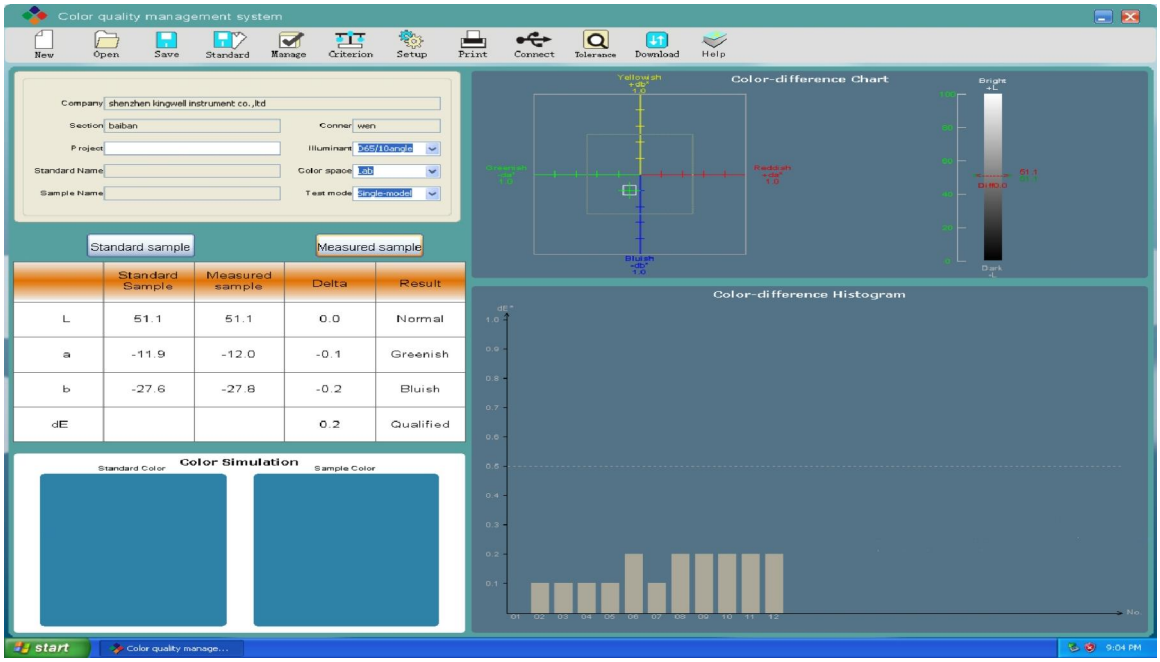


	Standard Sample	Measured sample	Delta	Result
L	51.1	51.1	0.0	Normal
a	-11.9	-12.0	-0.1	Greenish
b	-27.6	-27.8	-0.2	Bluish
dE			0.2	Qualified

Main functions of the software:

◇ The color difference data analysis about the standard and sample

◇ Color simulation, color difference chart, Batch

◇ Analysis of the color difference histogram

◇ Save and callout the data from data base

◇ Print the color quality chart

◇ Download the instrument's data to the computer

■ The optional mini-printer can output the data in time without connecting the computer

◎Technical parameter

Illuminant/light system: **45/0**

Measuring aperture: **Ø8mm**

Operating language: **Simplified Chinese, Traditional Chinese, English**

Display mode: **L*a*b, L*C*H, XYZ, △E*ab,（L*a*b*）,（L*C*H*）**

Storage space: **Standard: 50 sets, 30 sets of color difference data under a standard sample data**

Standard illuminant: **D65, D50, F11, C**

Standard observer: **10°**

Calibration: **White calibration, Zero cablibration**

Repeatability: **Standard deviation: within△E*ab≤0.08(When the white calibration plates measured 30 times, and then averaged)**

Measurement spacing: **2 seconds**

Power source: **4 AA-size batteries or AC adapter**

Operating temperature: **0- 40℃, （32 -104°F）; Relative humidity 85% or less**

Size(WxHxD): **110*60*190mm**

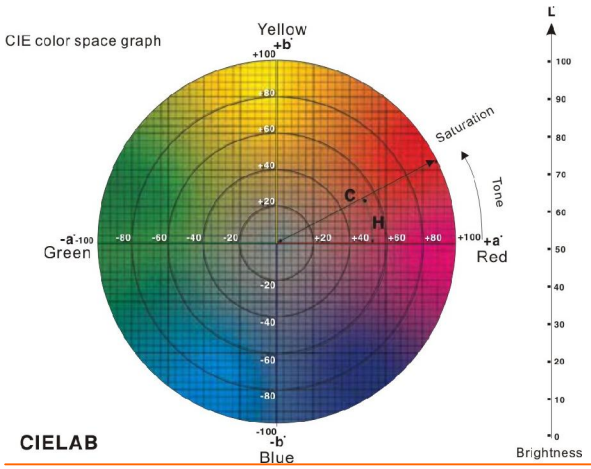
Weight: **330g(Without batteries)**

Standard Accessories: **Bag, Protection cap, Software, AC adapter, USB cable, Instrument, Hard case, Calibration plate**

Optional accessory: **Micro-printer**

Related software:

Color -difference formula：



△ $E^* = [(\triangle L^*)^2 + (\triangle a^*)^2 + (\triangle b^*)^2]^{1/2}$

△ L* = L*Sample- L*Standard

△ a* = a*Sample - a*Standard

△ b* = b*Sample - b*Standard

△E*：The total color difference

△ L+ Whitish， △L- Blackish

△ a+ Reddish，△a- Greenish

△ b+ Yellow， △b- Bluish