

# COLORIMETER

## เครื่องเปรียบเทียบสี

[www.itokin2000.com](http://www.itokin2000.com)



# CS-210



CS-210 colorimeter includes a camera for viewing the measurement area clear to avoid error. It can be widely used in plastic, printing, paint, textile, printing, dyeing and other industries



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Colorimeter is widely used in different industries such as plastic, printing, paint, textile, dyeing, etc. It measures the sample color values of  $L^*a^*b^*$ ,  $L^*c^*h^*$ , color difference  $\Delta E$  and  $\Delta Lab$  according to CIE color space.

### 1. Introduction

Device sensor exports Japan and processing chip is from USA, which guarantee the optical signal transfer accuracy and electrical signal stability. Display accuracy reaches 0.01, repeated test accuracy  $\Delta E$  deviation value is below 0.08.

### 2. Multiple color space display color values : $L^*a^*b^*$ , $L^*c^*h^*$ , $Yxy$

Being the most commonly used testing device, our colorimeter with built-in color display indicators transformation program, which makes our device could be used for color testing in many different industries. And it do not need convert the measurement data by manual which greatly improve the work efficiency.

### 3. Can Measurement Index of Whiteness and Yellowness

Index of Whiteness: Hunter and Gantz

Index of Yellowness: YI

### 4. Ergonomic Design

Instrument designs according to human palm so we could test data for long time with it. Superior leather design increases the friction in case of fingers sliding.

### 5. Free Color Management Software

Real-time display of pass or fail, generate testing report, save the color values, suitable for enterprise to evaluate color and management the color value.

### 6. Establish $L^*a^*b^*$ by manually

The standard samples can be manually set to meet the color difference test if there is no sample in hand.

### 7. Large store memory

The device could store 100 standard sample groups and every sample group could store 100 sample data.

### 8. Average Measurement Values

Test different points on sample and get the average value. It is widely used for color control whose color is not uniform.

### 9. Technical Support

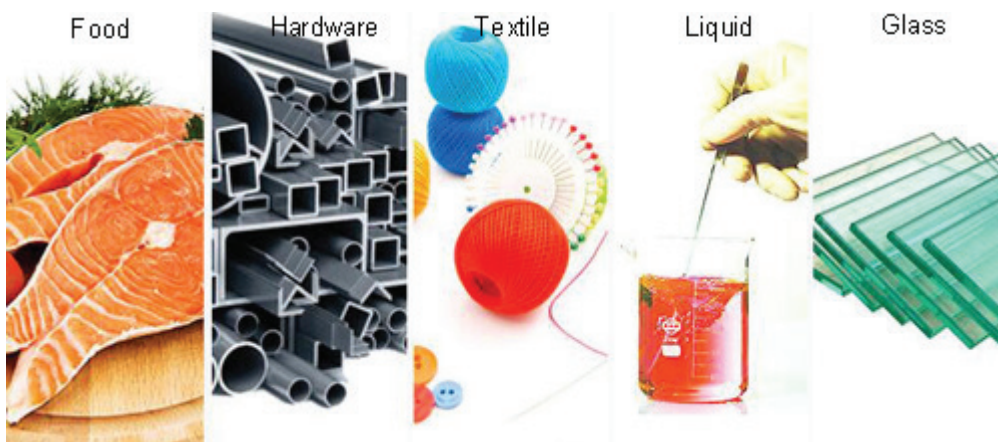


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Type	CS-210
illumination system	8/d (8°/diffused illumination)
Testing Port Diameter	SCI
Measuring conditions	About 8mm
Measuring range	CIE 10° standard observer; CIE D65 light source
Repeatability	$L^*$ : 1-100
Display	Standard deviation within $E^*ab^*$ , below 0.08(testing condition: measure the white calibration board 80 times for average)
Storage	Chromaticity Value: $L^*a^*b^*$ , $L^*c^*h$ , $\Delta E^*ab$ , XYZ, Yxy, Relative RGB, color difference $\Delta E^*ab$ , $\Delta E^*ch$
Measuring time	Whiteness: Hunter Whiteness, Ganz Whiteness;
Measuring light source	Yellow: YI
languages	100 sets of standard samples; up to 100 under each standard sample
Power	About 0.5 seconds
Port	LED
Weight	Chinese, English
Size	Four AA1.5V Alkaline battery or nickel-metal hydride batteries; Exclusive DC5V adapter
Other Function	USB2.0 printer
Size	550g
	77×86×210mm
	Build-in Micro Camera
	77 x 86 x 210 mm

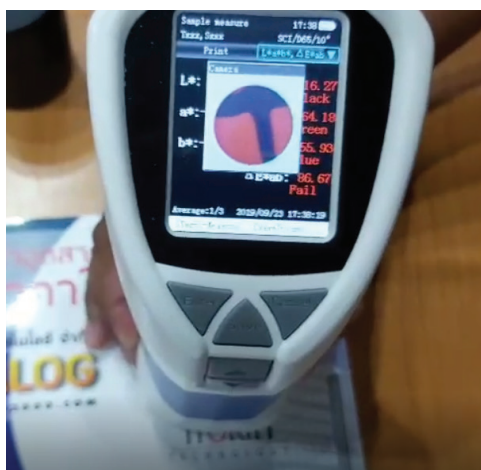
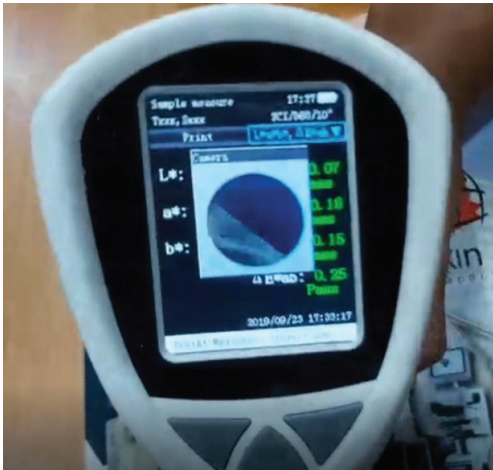


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# CS-210 Highlight CAMERA



Camera for sample view