



Colorimeter

LCC-A1 SERIES

Colorimeter LCC-A10

The color card reading colorimeter LCC-A10 reads the colored samples. It is equipped with 2.4 inch screen to display the matching color card number on screen. It comes with built in color chart where after each measurement, instrument makes a match with three color numbers from the color charts for the colorist's reference.

Features

- Equipped with color card for the measurement of the test sample
- 2.4 inch LCD display screen
- 8°/d (diffusion illumination system) with spectral components included (SCI)
- 100 sets of standard samples and 100 data groups for each sample storage capacity
- Display precision 0.01
- Repeatability precision ΔE standard deviation 0.08
- Whiteness values: hunter whiteness, Ganz whiteness, Yellowness values

Applications

The color card reading colorimeter is widely used in printing and dyeing, clothing, decoration, food industry, plastic industry, Life science industry, pharmacy etc.

Specifications

Model no.	LCC-A10
Color measurement method	Color card/ chart
Display mode	Colorimetric values: L^*a^*b , L^*C^*h , ΔE^*ab , XYZ relative RGB values; Color difference values: $\Delta(L^*a^*b)$, $\Delta(L^*C^*h)$; Whiteness values: hunter whiteness, Ganz whiteness Yellowness value: YI
Display screen	2.4 inch LCD display screen
Illumination system	8°/d (diffusion illumination), SCI (spectral components included)
Measuring calibration	About 8mm
Measuring condition	CIE 10° standard observation/ CIE D65 light source
Measuring range	L^* 1-100
Storage	100 sets of standard samples and 100 data groups for each sample
Measuring aperture	8 mm
Repeatability	Standard deviation within $\Delta E^*ab^* < 0.08$ (Measuring condition: measuring white calibration board 80 times)
Measurement time	0.5 s
Light source	LED halogen lamp
Power supply	Four 1.5V AA sized alkaline battery or nickel metal hydride batteries/DC5V
Interface	USB 2.0, printer
Weight	550 g
Dimension (volume)	77×86×210 mm

Colorimeter LCC-A11

The LCC-A11 is a cost effective product and is used for better test accuracy & measurement of YI yellowness or WI whiteness index. The measurement accuracy is enhanced through white & black calibration. Measurement can be done at multiple spots for average readings. This colorimeter gives ultra stable performance throughout the operations.

Features

- Can manually set up L*a*b* value for standard samples
- 2.4 inch LCD display screen
- PC software & data control
- USB & Bluetooth for data transmission
- 8°/d (diffusion illumination system) with spectral components included (SCI)
- Provides accurate measuring time settings
- Display precision 0.01
- Large data storage space

Applications

The colorimeter has applications in testing color of raw materials, products and its batches in Pharmacy, Life science, printing and dyeing, textile industry, decoration, food industry and plastic industry.

Specifications

Model no.	LCC-A11
Display mode	Colorimetric values: L^*a^*b , L^*C^*h , ΔE^*ab , XYZ, relative RGB values; Color difference values: $\Delta(L^*a^*b)$, $\Delta(L^*C^*h)$; Whiteness values: hunter whiteness, Ganz whiteness Yellowness value: YI
Display screen	2.4 inch LCD display screen
Illumination system	8°/d (diffusion illumination), SCI (spectral components included)
Measuring calibration	About 8mm
Measuring condition	CIE 10° standard observation/ CIE D65 light source
Measuring range:	L^* 1-100
Storage	100 sets of standard samples and 100 data groups for each sample
Measuring aperture	8 mm
Repeatability	Standard deviation within $\Delta E^*ab^* < 0.08$ (Measuring condition: measuring white calibration board 80 times)
Measurement time	0.5 s
Light source	LED halogen lamp
Power supply	Four 1.5V AA sized alkaline battery or nickel metal hydride batteries/DC5V
Interface	USB 2.0, printer
Weight	550 g
Dimension (volume)	77×86×210 mm

Colorimeter LCC-A12

The LCC-A12 colorimeter comes with build-in micron camera for viewing the measuring area. It becomes convenient for operator to see & analyze the test measurement area. It is suitable for testing patterned and colorful samples. Measurement can be done at multiple spots for average readings. The colorimeter gives ultra stable performance throughout the operations.

Features

- Equipped with camera viewing system
- Can manually set up L*a*b* value for standard samples
- 2.4 inch LCD display screen
- 8°/d (diffusion illumination system) with spectral components included (SCI)
- Display precision 0.01
- PC software & data control
- USB for data transmission
- Large storage data
- Provides accurate time measurement setting

Applications

The colorimeter has applications in decoration, plastic, food, dyeing, printing, textile, chemical & other industries.

Specifications

Model no.	LCC-A12
Characteristic function	Camera viewing system for measurement
Display mode	Colorimetric values: L^*a^*b , L^*C^*h , ΔE^*ab , XYZ relative RGB values; Color difference values: $\Delta(L^*a^*b)$, $\Delta(L^*C^*h)$; Whiteness values: hunter whiteness, Ganz whiteness Yellowness value: YI
Display screen	2.4 inch LCD display screen
Illumination system	8°/d (diffusion illumination), SCI (spectral components included)
Measuring calibration	About 8mm
Measuring condition	CIE 10° standard observation/ CIE D65 light source
Measuring range:	L^* 1-100
Storage	100 sets of standard samples and 100 data groups for each sample
Measuring aperture	8 mm
Repeatability	Standard deviation within $\Delta E^*ab^* < 0.08$ (Measuring condition: measuring white calibration board 80 times)
Measurement time	0.5 s
Light source	LED halogen lamp
Power supply	Four 1.5V AA sized alkaline battery or nickel metal hydride batteries/DC5V
Interface	USB 2.0, printer
Weight	550 g
Dimension (volume)	77×86×210 mm

Colorimeter LCC-A13

The colorimeter LCC-A13 offers the specular component excluded SCE measurement condition, specially designed for color measurement of powders, pasty materials, colloids and highly reflective materials. Both the yellowness & whiteness measurement can be done using this colorimeter. This colorimeter gives ultra stable performance throughout the operations.

Features

- Can precisely test pasty material, powders
- 8°/d (diffusion illumination) system, SCE (spectral components excluded)
- 2.4 inch LCD display screen
- Measurement can be done at multiple spots for average readings
- Can perform both yellowness & whiteness measurement
- Can manually set up L*a*b* value for standard samples
- PC software & data control
- USB & Bluetooth for data transmission

Applications

This colorimeter has major applications in dye and painting, decoration, Biotechnology, pharmacy food, printing industries for measurement of pasty materials & powders.

Specifications

Model no.	LCC-A13
Characteristic function	Can precisely test pasty material, powders
Display mode	Colorimetric values: L^*a^*b , L^*C^*h , ΔE^*ab , XYZ relative RGB values; Color difference values: $\Delta(L^*a^*b)$, $\Delta(L^*C^*h)$; Whiteness values: hunter whiteness, Ganz whiteness Yellowness value: YI
Display screen	2.4 inch LCD display screen
Illumination system	8°/d (diffusion illumination), SCE (spectral components excluded)
Measuring calibration	About 8mm
Measuring condition	CIE 10° standard observation/ CIE D65 light source
Measuring range:	L^* 1-100
Storage	100 sets of standard samples and 100 data groups for each sample
Measuring aperture	8 mm
Repeatability	Standard deviation within $\Delta E^*ab^* < 0.08$ (Measuring condition: measuring white calibration board 80 times)
Measurement time	0.5 s
Light source	LED halogen lamp
Power supply	Four 1.5V AA sized alkaline battery or nickel metal hydride batteries/DC5V
Interface	USB 2.0, printer
Weight	550 g
Dimension (volume)	77×86×210 mm

Colorimeter LCC-A14

Colorimeter LCC-A14 can set $L^*a^*b^*$ value manually for standard samples. The measurement accuracy is assured through the white & black calibration. The colorimeter can be connected to PC software for color management, saving reports & other data control also it has USB connections for data transmission.

Features

- 2.4 inch LCD display screen
- Use of white & black calibration assures accuracy
- Display precision 0.01
- PC software & data control
- USB for data transmission
- Provides accurate measuring time setting
- Can manually set up $L^*a^*b^*$ value for standard samples

Applications

The colorimeter has applications in is clothing, testing color of materials, production and final batches in Pharmacy, Life science industries, printing and dyeing, decoration, food industry, plastic industry, etc.

Specifications

Model no.	LCC-A14
Display mode	Colorimetric values: L^*a^*b , L^*C^*h , ΔE^*abXYZ relative RGB values; Color difference values: $\Delta(L^*a^*b)$, $\Delta(L^*C^*h)$
Display screen	2.4 inch LCD display screen
Illumination system	8°/d (diffusion illumination), SCI (spectral components included)
Measuring calibration	About 8mm
Measuring condition	CIE 10° standard observation/ CIE D65 light source
Storage	10 samples and 100 data groups for each sample
Measuring range:	L^* 1-100
Measuring aperture	8 mm
Repeatability	Standard deviation within $\Delta E^*ab^* < 0.1$ (Measuring condition: measuring white calibration board 80 times)
Measurement time	0.5 s
Light source	LED halogen lamp
Power supply	Four 1.5V AA sized alkaline battery or nickel metal hydride batteries/DC5V
Interface	USB 2.0, printer
Weight	550 g
Dimension (volume)	77×86×210 mm