

SALUTRON® COLORTECTOR ALPHA



Portable colorimeter: in accordance with the development of the international CIE standard for color difference measurement / in line with the international standards

CHARACTERISTICS

- stable performance
- high precision
- easy to carry
- especially suitable for the production, operating surveying in the same material
- LCD display technology to make sure easy understanding
- measures color contrast values form the same material accurately, i. e. ΔE , ΔL , Δa , Δb , Lab and Lch value
- power controlling functions ensure accuracy
- warning: continuous ringing
- measuring: suggestive buzzing

APPLICATION

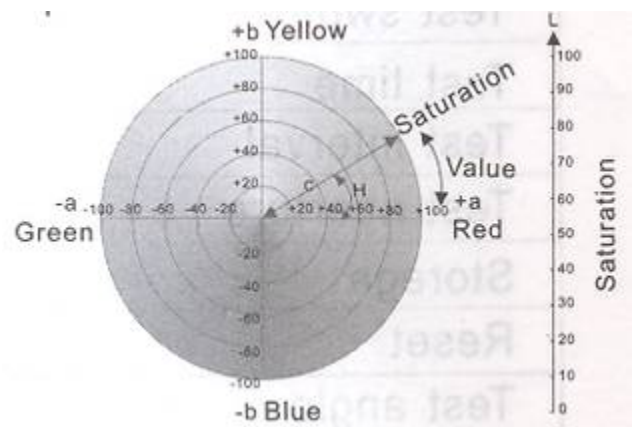
for measuring on...

- plastics
- metal
- printings
- paintings

WORKING THEORY

The ColorTector Alpha compares the color difference between the sample and the measured subject. Output CIE_Lab 3 groups data, and the 4 groups of ΔE , ΔL , Δa , Δb after comparison.

- ΔE total color difference
- $\Delta L+$ partial white
- $\Delta L-$ partial black (comparison with proto type)
- $\Delta a+$ partial red
- $\Delta a-$ partial green (comparison with proto type)
- $\Delta b+$ partial yellow
- $\Delta b-$ partial blue (comparison with proto type)



COLOR DIFFERENCE SCOPE	COLOR DIF. ANALYSIS
0 – 0.25 ΔE	very small or none; perfect matching
0.25 – 0.5 ΔE	small; acceptable matching
0.5 – 1.0 ΔE	small to medium; acceptable in some areas
1.0 – 2.0 ΔE	medium; acceptable in special applications
2.0 – 4.0 ΔE	has distance; acceptable in special applications
4.0 ΔE	very big; not acceptable in most applications



FEATURES

Test accuracy	Within 0.2 ΔE^*ab
Display	ΔE^*ab , CIE_Lab, ΔL , Δa , Δb , CIE_Lch
Test swpe	L: 0-100 a: -128—127 b: -128—127
Test time	About 3 seconds
Test interval	2 seconds
Test aperture	Ø 8mm
Storage	Keep a group of data (Not connected to PC)
Reset	Reset
Test angle	Observers: CIE 10° standard observer
Light source	C light source
Sensor	Correct silicon photodiode carrays
Power	AC battery 15 V; external(1.5A) power supply
Size	171*50*48.8mm
Weight	203.6 g (exclusive battery)
Operated temperature scope	0-40°C (32-104°F); lower than 85% relative humidity
Standard accessories	1pc manual/softbag/1.5V battery/5V external power supply/USB connecting cable/CD
Application	Measures any color of smooth surface

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