

New Product

Colour Cute *i*

Pursuing for the peak of its class,
the “Cute” is back with improved stability, easier operation, and reduced price.

Colour Cute *i*

CC-*i*



Colour meters with greater measuring accuracy has always meant colour meters with a bigger price tag. What the customers truly want out of colour meters are long-term stability, good accuracy, easy operation, and reasonable price.

“Color Cute *i*” comes from three different “*i*” s:” integration of individual abilities demanded for the colour meter, a revolutionary *innovation* that can overturn any old conceptions about colour meters, and its *identity* as the new generation of colour meters.



SUGA Suga Test Instruments Co.,Ltd.

Colour Cute *i* summary

Colour Cute *i* is an all-in-one photoelectric tristimulus colorimeter, capable of measuring both reflection and transmittance. It also prides itself of repeated testing capability and long-term stability.

The geometry of the reflection measurement is reception at 8° with diffused lighting. The instrument is switchable between measurement with and without specular reflection light (8°: de or 8°: di), allowing accurate measurement of specimens that include substantial amount of specular components. The

condition for the color measurement is selectable from C light with 2° observer angle, D₆₅ light with 10° observer angle and D₆₅ light with 2° observer angle. For the first time in its class, a colour touch panel is installed, allowing easy measurement operation for every users. It also includes many features such as a printer, USB interface for measurement data transfer, Excel transfer software, and variety of setting categories, all available in a much more reasonable cost.

Characteristics of Colour Cute *i*

- 1. Stability** Best stability of its class
- 2. Operability** Easy to operate with the popular colour touch panel format
- 3. Features** Variety of features with easy data management.

- 4. Size** Optical and measurement components together in a compact size.
- 5. Price** Greatest cost performance of its class.

Measurement items

XYZ, xyY	XYZ, xyY, xy chromaticity diagram
L*A*B* colour system	L*a*b*, ΔL^* , Δa^* , Δb^* , ΔE^*_{ab} , hab, C*, ΔH^* , ΔC^* , CMC colour difference formula $\Delta E_{CMC}(2:1)$, CMC colour difference formula $\Delta E_{CMC}(1:1)$, ΔE_{94} , ΔE_{00} , L*a*b* chromaticity diagram and color difference graph
Hunter colour system	Lab, ΔL , Δa , Δb , ΔE_H , h(ΔH°), C, ΔH , ΔC , Lab chromaticity diagram and color difference graph
L*u*v* colour system	L*u*v*, ΔL^* , Δu^* , Δv^* , ΔE^*_{uv}

Specification

Color measurement conditions	C light with 2° observer angle D ₆₅ light with 10° observer angle D ₆₅ light with 2° observer angle
Geometry	Reflectometry 8° incidence diffused light viewing (switchable between 8°:de and 8°:di) [confirming to JIS Z 8722 condition d]
	Transmission 0° incidence diffused light viewing [confirming to JIS Z 8722 condition f]
Measurement method	TM double beam method (Photoelectric tristimulus colorimetry)
Aperture diameter	Reflectometry ϕ 30mm ϕ 15mm ϕ 5mm
	Transmission ϕ 30mm
Light source	Halogen lamp
Light receptor	Combination of photocell and filter
Printer	Prints the selected measurement values and conditions.

Three attributes of colour (Munsell value)	H V/C
JIS colour fastness class	Grayscale for change in colour: NC [#] , Grayscale class Grayscale for staining: Ns, Grayscale class
Whiteness	B, W' (4B-3Y), W(Lab), CIE W, T _w , W L*a*b*
Yellowness	YI

- Three attributes of colour (Munsell value) is only available for C light with 2° observer angle
- Yellowness not available for D₆₅ light with 2° observer angle
- JIS Colour fastness class not available for D₆₅ light with 2° observer angle
- Prints out all items except graphs

Average	Maximum 99 times
Data Memory	Maximum 500 data
Interface	USB 2.0 B terminal
Stability	Within standard deviation of 0.02 of ΔE^*_{ab} (after measuring 30 times using the standard white calibration plate *1)
Power source	One-phase 100 to 240 V*2, approx. 200VA, 50Hz/60Hz
Exterior dimension and weight	Width 43 × length 39 × height 23cm [approx. 12.5kg]
Standards	JIS Z 8722, CIE Pub.No 15

*1 The standard white calibration plate, used as the standard for measuring values, is traceable to the international standard by National Institute of Advanced Industrial Science and Technology.

*2 AC 100V power cable for Japanese electricity comes as a standard attachment. A separate power cable will be necessary to use this instrument where the power source is other than AC 100V.

Please refer to the separate specification document and the blueprint for further details.



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