

Colour Meter

SM-T



This is a tristimulus colorimeter featuring excellent operability with its easy-to-operate touch screen control and display. The measurement results (in values and diagrams) are displayed on the colour liquid crystal display, which can be forwarded to the printer (a computer can also be used in place of the operation unit with touch screen). Our distinct TM double beam method allows for long-term stable measurements. Geometry is eight degree : diffuse geometry (reflection) and normal : diffuse geometry (transmission). Colour difference, H V/C values, and colour fastness grades (grey scale) may be measured.

Measurement parameters

XYZ, xyY, xy chromaticity diagram, L*a*b* colour space, L*a*b* chromaticity diagram/ colour shift graph, L*u*v* colour space, L*u*v* chromaticity diagram/ colour shift graph, Hunter Lab colour space, Hunter Lab chromaticity diagram/colour shift graph, Adams-Nickerson, Colour difference (ΔE_{cmc} , ΔE_{94} , ΔE_{00} , ΔE^*_{ab} , ΔE_H , ΔE_{AN}), Munsell colour system, Lsd, Whiteness, Yellowness index, Change of Yellowness index ,Grey scale for assessing staining (Ns),Grey scale for assessing change in colour (Nc#), D_x , B^* , ΔD_x , ΔB^* , ΔD_H , ΔD_B , ΔE^{**} , Metamerism indices (M),

*Some items will not be available depending on the selected illuminant and observer.

Specifications

Colorimetry conditions	Illuminant C with 2° observer and illuminant D65 with 10° observer
Optical unit	Reflection: Eight degree:diffuse geometry (switchable between 8°:de and 8°:di) Conforming to JIS Z 8722 condition d
Geometry	Transmission: Normal:diffuse geometry (total light) Conforming to JIS Z 8722 condition f
Photometry	TM double beam method
Aperture (diameter)	Reflectance: ϕ 30 mm, ϕ 15 mm, ϕ 5 mm, Transmittance: ϕ 30 mm

Light source	12 V 50 W halogen lamp
Stability	The standard deviation of ΔE^*_{ab} after measuring an instrument white standardization plaque 30 times is within 0.01.
Electrical requirement	Single-phase, 100 V, approx. 2 A
External dimension and weight	Optical unit: Approx. Width 43 cm, Depth 28 cm, and Height 23 cm; approx.12.6 kg Operation unit: Approx. Width 23 cm, Depth 32 cm, and Height 14 cm; approx.4 kg



Suga Test Instruments Co.,Ltd. www.suga-global.com

Head Office 5-4-14 Shinjuku, Shinjuku-ku, Tokyo, Japan 160-0022
TEL +81-3-3354-5241 FAX +81-3-3354-5275 MAIL i_sales@sugatest.co.jp
Branch Nagoya/Osaka/Hiroshima