

SPECTROPHOTOMETER

NF 555

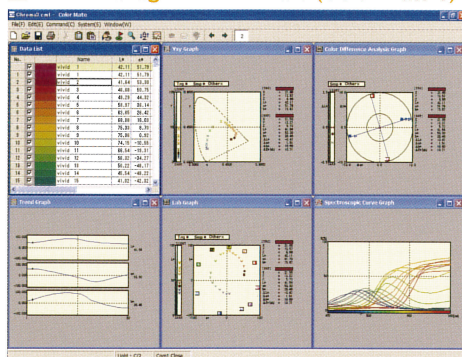


NF 555 is a spectrophotometric type color difference meter, which is compact, light weight and portable. It allows to simultaneously measure three items of spectral reflectance, various color values and reflection density in the wavelength range of 400nm to 700nm at 20nm intervals. In conformity to your sample shape and size, you can select a pen type, stapler type or mouse type. In addition to various values of measurement, such graphs as color deviation criterion chart, chromaticity coordinate, etc. can be also shown on the display.

■ Features

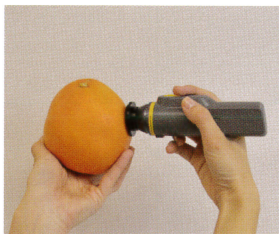
- ① This is a portable, compact and light-weight handy type spectrophotometer for simplified measurement.
- ② Following your sample shape and size, you can select a suitable measuring mode from the prepared 3 types.
- ③ Using this one handy unit, you can measure spectral reflectance, various color values and reflection density, etc.
- ④ Measurement is available in the wavelength range of 400nm to 700nm at 20nm intervals.
- ⑤ A long life multicolor LED has been adopted as a light source, so lamp replacement is no more needed and your running cost will be largely cut back.
- ⑥ Such graphs as color deviation criterion chart, chromaticity coordinate, etc. are shown on the liquid-crystal display.
- ⑦ Using the color management software annexed to this model, analysis by measurement data and various color graphs is possible on the display of your personal computer.

■ Color management software (Color Mate 5)



Using the annexed color management software, more effective data analysis and color management will become available.

■ Optional attachments



[Measurement of curved surface]



[Measurement of wet surface]



[Measurement of powder]

Optional attachments allow measurement of samples with a variety of shapes.

■ Measuring methods



Pen type



Mouse type



Stapler type (Option)



Exclusive Printer (option)

■ Specifications

Illumination/Light reception	D ₀ : 45°C (0° illumination : 45° circumference light receiving)	Measuring items	XYZ, ΔXYZ, L*a*b*, ΔL*a*b*, L*C*h*, ΔL*C*h*, LCH, L*u*v*, ΔL*u*v*, Hunter Lab, Hunter ΔLabE, Yxy, ΔYxy, YI, ΔYI (ASTM E313, D1925), W, ΔW (CIE, ASTM E313, L*a*b*, Lab, WB, Brightness), Munsell HV/C, ΔE00, ΔECMC, MI, Spectral distribution, Color deviation criterion chart, ΔL*a*b* chromaticity coordinate, Decision to pass or fail, CMYK density, Density difference, Reflection density, etc.
Measuring method	Double-beam, Front end spectroscopy method	Related standards	JIS (Z8722, Z8781-4, Z8730), ASTM (E308, E313) etc.
Measuring wavelength	400nm to 700nm, at 20nm intervals	Power supply	AA battery x 4 pieces or AC adapter, 5VA
Measuring aperture	φ 4mm or φ 8mm (to be selected)	Dimensions & weight	170(W) x 85(D) x 145(H) mm, Approx. 660g (including batteries)
Light source	Multicolor LED	Option	Stapler, Target plate for curved surface, Target plate for wet surface, Exclusive printer, etc.
Measuring accuracy	Color difference (ΔE*ab): ΔE* standard deviation within 0.05 (φ 4mm aperture) or within 0.02 (φ 8mm aperture), where 30 measurements were continuously made using a standard white plate.		
Illuminant/observer	A, B, C, D50, D55, D65, D75, F2, F5, F6, F7, F8, F10, F11 and F12		
Observation condition	2° and 10° field of view for each illuminant/observer		

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