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CM-700D Spectrophotometer Package

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Product ID: 7600-0000-2692

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Overview	Description	Specifications
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Illumination/ viewing system: di: 8°, de: 8° (diffused illumination, 8-degree viewing angle), SCI (specular component included)/SCE (specular component excluded) selectable with automatic switching (Conforms to CIE No. 15, ISO 7724/1, DIN5033 Teil7, ASTM E 1164, and JIS Z 8722)

Size of integrating sphere: Φ40mm

Detector: Silicon photodiode array (dual 36-element)

Spectral separation device: Diffraction grating

Wavelength range: 400 nm to 700 nm

Wavelength pitch: 10 nm

Half bandwidth: Approx. 10 nm

Reflectance range: 0 to 175%, Display resolution: 0.01%

Light source: Pulsed xenon lamp (with UV cut filter)

Measurement time: Approx. 1 second

Minimum measurement interval: Approx. 2 second (in SCI or SCE mode)

Battery performance:

With alkaline dry batteries: Approx. 2,000 measurements

With nickel-metal-hydride rechargeable batteries (2300 mAh): Approx. 2,000 measurements with full charge

* Stand-alone continuous measurement fixed to either SCI or SCE mode at 10-second intervals at 23°C

Measurement/illumination area:

MAV: Φ8 mm/Φ11 mm SAV: Φ3 mm/Φ6 mm

* Changeable by replacing target mask and selecting lens position

MAV: Φ8 mm/Φ11 mm only

Repeatability:

Spectral reflectance: Standard deviation within 0.1%, Chromaticity value: Standard deviation within ΔE*ab

0.04

* When a white calibration plate is measured 30 times at 10-second intervals after white calibration

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Inter-instrument agreement: Within ΔE^*ab 0.2 (MAV/SCI)
 * Based on 12 BCRA Series II color tiles compared to values measured with a master body at 23°C

No. of averaging measurements: 1 to 10 (Auto averaging), 1 to 30 (Manual averaging)

Display: 2.36-inch TFT color LCD

Interfaces: USB1.1; Bluetooth® standard version 1.2*

Observer: 2° observer or 10° observer

Illuminant: A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12 (Simultaneous evaluation with two light sources possible)

Displayed data: Spectral values/graph, colorimetric values, color difference values/graph, PASS/FAIL result, pseudocolor, color assessment

Color spaces: L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, Munsell, and color difference in these spaces (except for Munsell)

Colorimetric data: MI, WI(ASTM E313-73/E313-96), YI(ASTM E313-73/ASTM D1925), ISO Brightness, 8° gloss value

Color difference formulas: ΔE^*ab (CIE1976), ΔE^*94 (CIE1994), $\Delta E00$ (CIE 2000), CMC (l: c)

Storable data sets: Measurement data: 4,000 sets/Target color difference data: 1,000 sets

Pass/fail judgment: Tolerances can be set to colorimetric values (excluding Munsell), color difference values, color values (excluding 8° gloss value) respectively

Power: Special AC adapter; 4 AA-size alkaline dry batteries or nickel-metal-hydride rechargeable batteries

Size: 73 (W) x 211.5 (H) x 107 (D) mm

Weight: Approx. 550 g (without white calibration cap and batteries)

Operating temperature/ humidity range: 5 to 40°C, relative humidity 80% or less (at 35°C) with no condensation

Storage temperature/ humidity range: 0 to 45°C, relative humidity 80% or less (at 35°C) with no condensation

Included Accessories



IF-A17 USB Cable (2m)
Price: \$74.00

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Wrist Strap
Price: \$12.00

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AC-A305 Adapter (120V)
Price: \$155.00

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CM-A177 White Calibration Cap
Price: \$206.00

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CM-A178 Target Mask 8mm (w/plate)
Price: \$83.00

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CM-179 Target Mask 3mm (w/plate)
Price: \$119.00

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CM-180 Target Mask 8mm (w/o plate)
Price: \$31.00



CM-A181 Target Mask 3mm (w/o plate)
Price: \$31.00