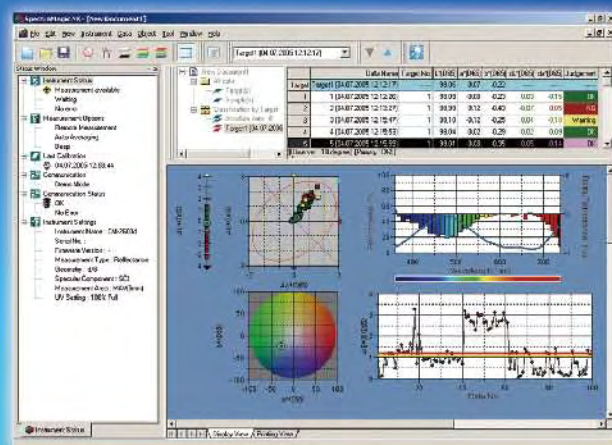


SPECTROPHOTOMETER CM-3500d



SpectraMagic™ **NX** (Optional)



Functions

sets CIE, ISO, ASTM, and DIN standards. It is placed on top of the unit, making it easy to use for powders or pastes.

It minimizes the influence of surface conditions on color-matching applications. SCE (specular) closely to professional visual evaluation and red.

ø3mm (optional accessory) according to the

using the Petri Dish Set CM-A126 (optional



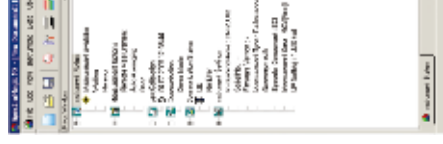
Transmittance measurements

The spectral transmittance of liquids or of specimens in sheet or plate form can be measured using di0°, de0° (diffuse illumination/0° viewing angle) geometry.



Supports Windows® 2000/XP/Vista

SpectraMagic™ **NX** enables you to perform comprehensive color inspection and analysis of incoming raw materials, in process production, and outbound color critical goods and materials in virtually any industry. With SpectraMagic™ **NX** you can insert digital images with measured data. Measure samples in any of 8 universally accepted color spaces. Select from 15 illuminants, and up to 40 indices to determine specific color and appearance properties, such as strength, brightness, haze, yellowness, opacity and strength. You can even configure up to 3 customized color equations. Reports range from simple Pass/Fail to trend charts, histograms, color plots, and spectral graphs. SpectraMagic™ **NX** comes with predefined templates using skin technology, or you can create your own templates. For illustrations and explanations to understand color and color measurement technology, there is a link to Konica Minolta's well known and respected "Precise Color Communication". Step by step navigation help.



★ Windows® is
other countries

Optional Accessories

For transmittance measurements

Transmittance Specimen Holder CM-A96

Holds specimens in place for transmittance measurements. Maximum specimen thickness: 22.5mm



Glass Cell CM-A97/CM-A98/CM-A99

Hold liquid specimens for transmittance measurements. Optical path lengths: 2mm (CM-A97), 10mm (CM-A98), and 20mm (CM-A99)



For measurements of powders or pastes

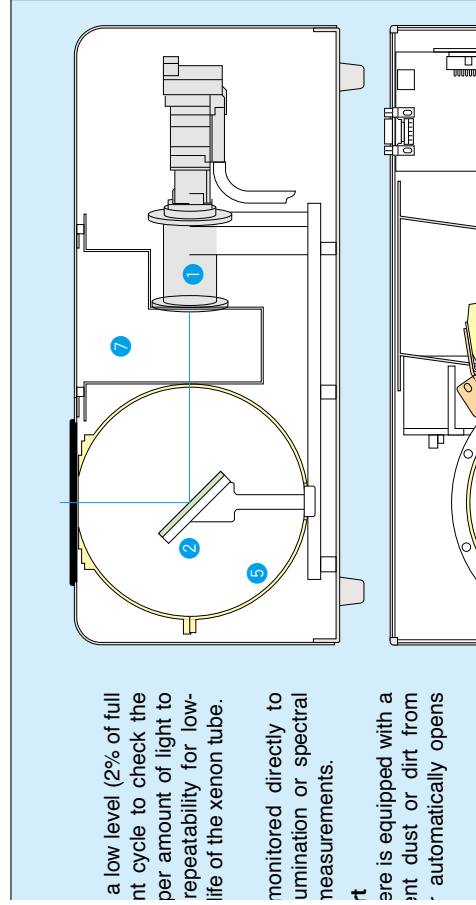
Petri Dish Set CM-A126

Includes Target Mask (for Petri Dish) CM-A127, Petri Dish CM-A128, and Calibration Glass (for Petri Dish) CM-A129

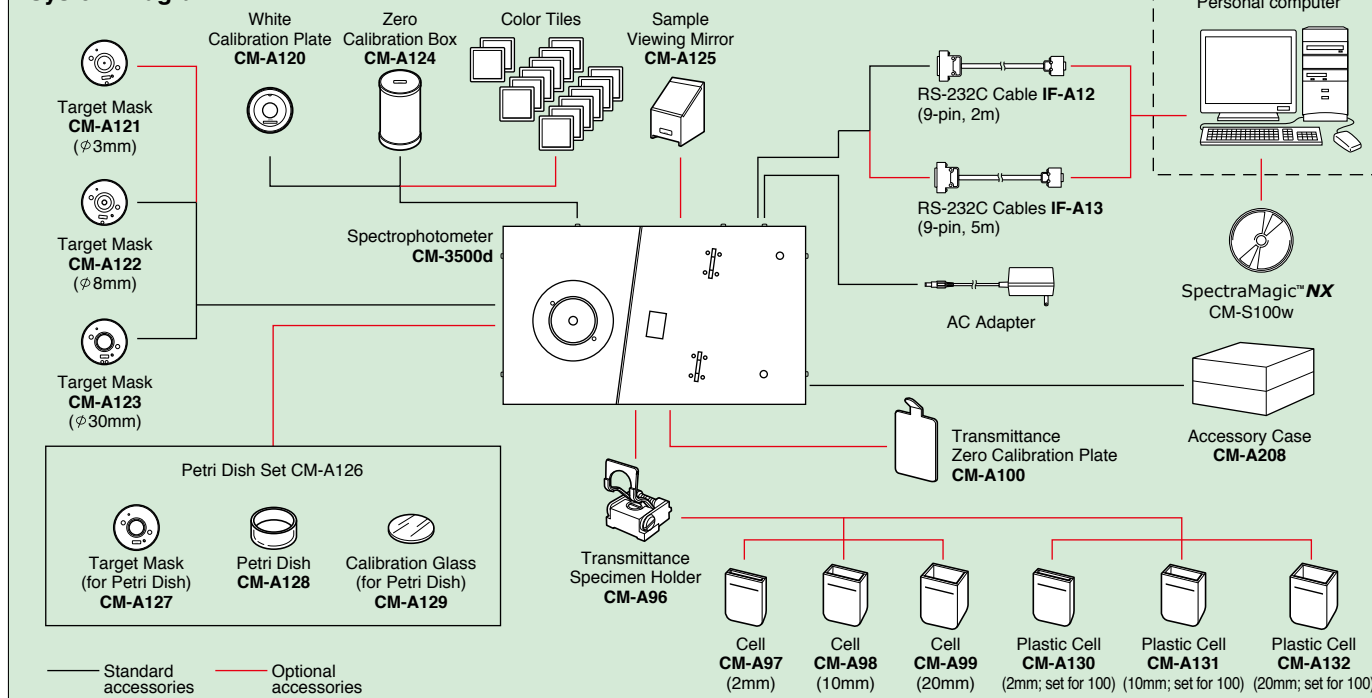
Other accessories

Color Tiles

14 color tiles are available: White, Pale grey, Middle grey, Difference grey, Deep grey, Deep pink Red, Orange, Bright yellow, Green



System Diagram

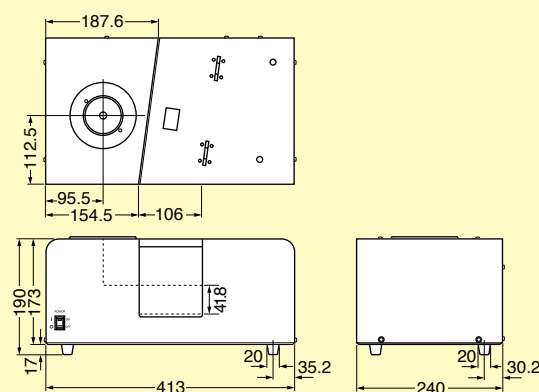


Specifications (CM-3500d)

Measuring geometry	Reflectance: di:8°, de:8° (diffuse illumination/8° viewing angle); SCI (specular component included)/SCE (specular component excluded) switchable; meets CIE, ISO, ASTM, and DIN standards. Transmittance: di:0°, de:0° (diffuse illumination/0° viewing angle)
Detector	Dual 18-element silicon photodiode array with wedge-shape continuous interference filter
Wavelength range	400 to 700nm
Wavelength pitch	20nm
Half bandwidth	Approx. 20nm average
Photometric range	0 to 175%; Resolution: 0.01%
Light source	Pulsed xenon arc lamp
Measurement time	Approximately 2.5 sec. (to start of data output)
Minimum interval between measurements	3 sec.
Illumination/measurement areas	Reflectance: Changeable; ø36mm illumination/ø30mm measurement or ø11mm illumination/ø8mm measurement Transmittance: Approx. ø22mm
Specimen conditions for transmittance measurements	Sheet, plate, or liquid (in container) form up to a maximum thickness of approximately 50mm
Repeatability	When white calibration plate is measured 30 times at 10-sec. intervals after white calibration has been performed: Spectral reflectance: Standard deviation within 0.20% Chromaticity: Standard deviation within ΔE*ab 0.05
Inter-instrument agreement (LAV)	mean ΔE*ab 0.15 (typical) Average for 12 BCRA Series II color tiles compared to values measured with master body.
Temperature drift	Spectral reflectance: Within ±0.30%/°C Color difference: Within ΔE*ab 0.05/°C
Interface	RS-232C standard
Power	AC 100V/120V/230V 50/60Hz (using included AC adapter)
Operating temperature/humidity range (*1)	0 to 40°C, relative humidity 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	-20 to 45°C, relative humidity 85% or less (at 35°C) with no condensation
Dimensions (W×H×D)	413 × 190 × 240mm (16-15/16 × 7-1/2 × 9-7/16 in.)
Weight	10kg (22 lb.)

*1 Operating temperature/humidity range of products for North America : 5 to 40°C, relative humidity 80% or less (at 31°C) with no condensation

System Diagram



• Specifications are subject to change without notice.



Certificate No : YKA 0937154
Registration Date : March 3, 1995



Certificate No : JQA-E-80027
Registration Date : March 12, 1997



SAFETY PRECAUTIONS

For correct use and for your safety, be sure to read the instruction manual before using the instrument.

- Always connect the instrument to the specified power supply voltage. Improper connection may cause a fire or electric shock.

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<http://konicaminolta.com/instruments/about/network>