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# THE STANDARD IN MEASURING

**Light Measurements** 

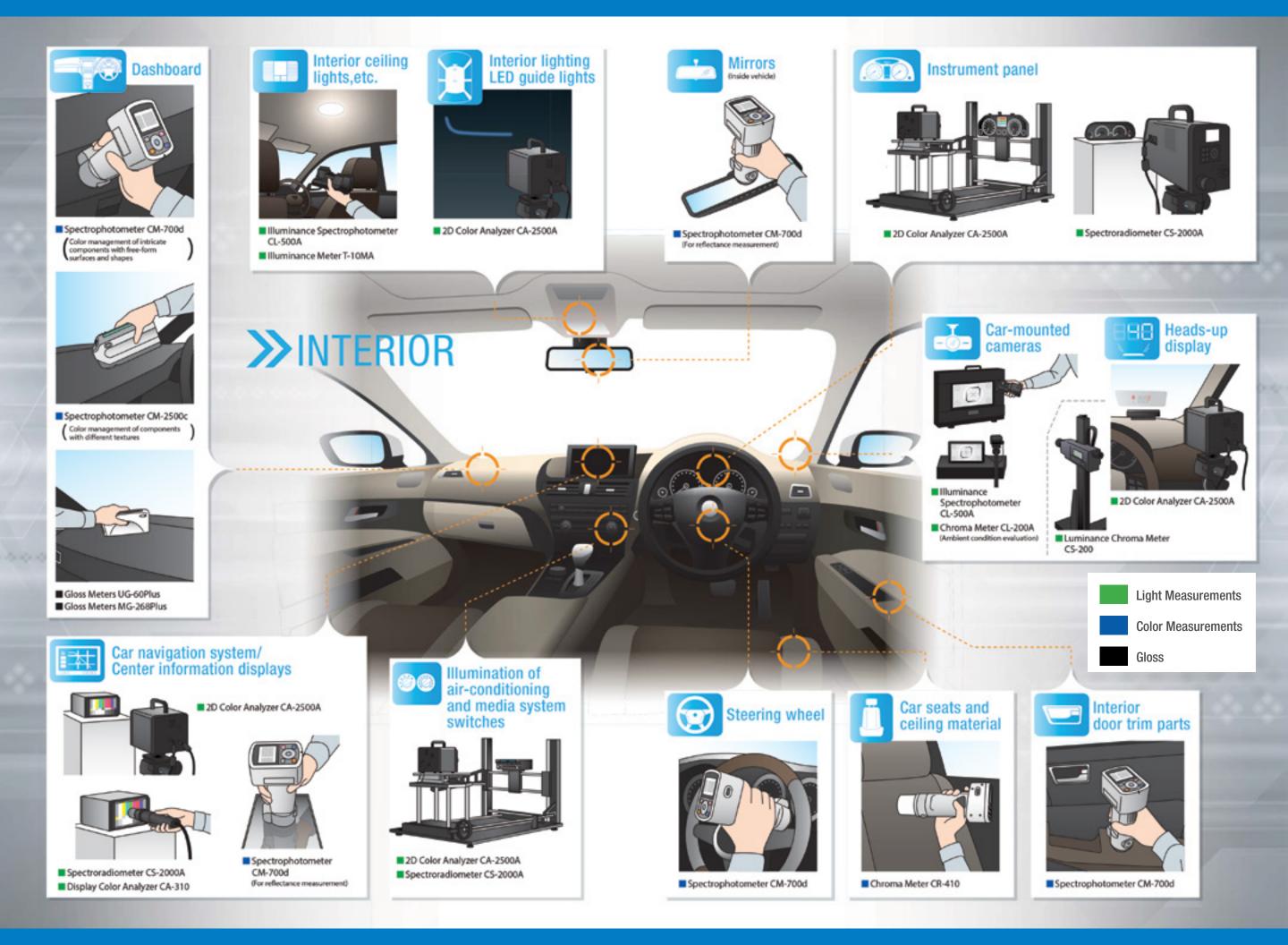
**Color Measurements** 

# AUTOMOTIVE EVALUATION INSTRUMENTS FOR MEASURING COLOR AND LIGHT

4.0°C







# THE STANDARD IN MEASURING

# **Instruments for Color and Light Measurements**

**Color Measurements** 

# **Spectrophotometers**



#### **CM-700d**

The CM-700d is a portable spectrophotometer that brings together Konica Minolta's proprietary cutting-edge optical technologies to provide high precision and high functionality of bench-top instruments in a low-cost, compact unit with excellent mobility and operability. The CM-700d is ideal for color measurement of interior automotive components. Measurement area:  $\emptyset 8 \text{ mm} / \emptyset 3 \text{ mm}$  (changeable)



#### CM-2500c

The newly developed 45°a:0° geometry (45° annular illumination, 0° vertical viewing) allows for unsurpassed accuracy and repeatability. The CM-2500c's 45°a:0° optical system offers an evaluation method that makes this instrument ideal for color measurements of interior automotive components. Measurement area:  $\wp7$  mm



# CM-512m3A

The CM-512m3A is a multi-angle spectrophotometer for metallic paints. Capable of measuring 3 angles—highlight (25°), general (45°), and shade (75°)—simultaneously, the instrument is suitable for applications such as measuring metallic and pearl effect coatings used on automotive exteriors. The CM-512m3A is also ideal for evaluating such colors on curved surfaces. Measurement area:  $\emptyset$ 12 mm



#### CM-5

The CM-5 is a lightweight, easy-to-use compact spectrophotometer with a top port and a variety of new features. This all-in-one spectrophotometer also features a large color LCD screen and is ideal for transmittance measurement of windshield glass.

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# THE STANDARD IN MEASURING

# **Chroma Meters**



#### **CR-400**

The CR-400, a classic handheld color difference measurement instrument, has been a worldwide best-seller since its launch. Measurement area:  $\emptyset 8$  mm

#### **CR-410**

The handheld CR-410 offers one of the largest-diameter measurement areas, making it ideal for averaged measurements of samples with uneven surfaces or patterns. Measurement area:  $\wp$ 50 mm

# **Gloss Meters**



#### UG-60Plus/MG-268Plus

The UG-60Plus and MG-268Plus gloss meters are used to measure the degree of gloss on a surface. These instruments are ideal for managing gloss in order to reduce dashboard glare on the front windshield. The wide measurement range of 0.0 to 2,000 GU allows for measurement of everything from plastics to high-gloss metallic surfaces.

#### Light and Displays Measurements

# **2D Color Analyzer**



# CA-2500A

The CA-2500A offers high-resolution, two-dimensional measurement of luminance and chromaticity distribution of in-vehicle displays. Processes from measurement to data analysis and evaluation can be performed efficiently in a short time, making the CA-2500A ideal for both development evaluation and product inspection. Interchangeable lenses enable measurements of various areas.

# Spectroradiometer



#### CS-2000A

Featuring Konica Minolta's proprietary optical design and signal processing technology, the CS-2000A is a spectroradiometer capable of accurate luminance and chromaticity measurement even at an ultra-low luminance of 0.0005 cd/m<sup>2</sup>.

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# THE STANDARD IN MEASURING

# **Chroma Meter**



#### **CS-200**

The CS-200 is a luminance and color meter that features a spectral fitting method that enables highly accurate luminance and chromaticity measurements comparable to those of spectroradiometers.

# **Color Analyzer**



#### CA-310

The CA-310 allows luminance and chromaticity measurement of in-vehicle displays such as car navigation systems. With this instrument, measurements can be performed at high speed and high accuracy.

# Illuminance Spectrophotometer



#### CL-500A

The CL-500A can be used for inspection and measurement of interior LED lighting. The hand-held design allows for easy measurement of various locations in a vehicle, including around the steering wheel and under the seat. This compact, lightweight illuminance spectrophotometer is ideal for evaluation and measurement of CRI (color rendering index) of any light source. The CL-500A also conforms to both DIN and JIS standards. Measurement and display of a light source's average CRI, illuminance (lx), scotopic illuminance (lx), correlated color temperature (K), and chromaticity (xy) are possible.

# **Chroma Meter**



#### **CL-200A**

The CL-200A is a compact and lightweight illuminance colorimeter that is ideal for measuring the color temperatures of white LEDs. It is capable of measuring and displaying a light source's correlated color temperature (K), chromaticity (xy), illuminance (lx), tristimulus values (XYZ), dominant wavelength, and excitation purity.

# **Illuminance Meter**



#### T-10A/T-10MA

The T-10A and T-10MA high-precision illuminance meters conform to JIS AA Class and DIN Class B standards. The ability to accurately measure next-generation pulse width modulation (PWM) controlled light sources makes these instruments ideal for illuminance measurement system applications including incorporation in multi-point measurement systems and testing equipment.

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