Simple operation shows colorimetric values for samples in various forms, from solids to powders, pastes, etc. in a instant.

Simple basic operation. Just three steps:
Switch on → Do white calibration → Measure samples

Lightweight and compact!

Can display results in any of eight color spaces and colorimetric indexes!

Konica Minolta’s new Color Reader Series has arrived!
Main features

1. Display data in a variety of color spaces and colorimetric indexes

You can select one color space or color index for the measurement data among the eight color spaces and colorimetric indexes available: L*a*b*, L*C*h, Yxy, Munsell (D65), WI (CIE/ASTM E 313-96), Tint (CIE/ASTM E 313-96), Y1 (ASTM E 313-96).

2. Averaging function

If sample color is uneven, you can measure several points and then obtain the average result by pressing the Average button.

3. Data Memory

Using the PC application stored in the CR-20, you can set the instrument to store data internally. (Memory capacity: 1,000 data)

Other features

1. A protective glass

The CR-20’s tip has a protective glass plate, so you can measure all kinds of samples such as powders, pastes, and wet objects, directly.

2. Printer

By connecting a printer to the CR-20, you can print out measured data.

Main Specifications

Model: Color Reader CR-20

- Illumination/viewing system: 8°: de (8° Illumination angle/diffuse viewing: specular component excluded) (conforms to DIN 5033 Teil 7, JIS Z 8722 condition d, ISO 7724/1, CIE No. 15, ASTM E 1164)
- Detector: Silicon photocells (6 pcs.)
- Light source: Pulsed xenon lamp
- Measurement time: Approx. 1 sec.
- Battery performance: Approx. 2,000 measurement at 10-sec. intervals when using alkaline-manganese batteries
- Measurement area: Approx. ø8 mm
- Repeatability: Standard deviation within ΔE*ab 0.1 (when a white calibration plate is measured 30 times at 10-second intervals)
- Display languages: English, Japanese
- Interface: USB 2.0
- Observer: 10° Standard Observer
- Illuminant: D65
- Display data: Colorimetric data, average (up to 999 times)
- Color spaces: L*a*b*, L*C*h, Yxy, Munsell (D65), WI (CIE/ASTM E 313-96), Tint (CIE/ASTM E 313-96), Y1 (ASTM E 313-96)
- Data memory: Sample data (up to 1,000)
- Storage temperature/humidity range: -20 to 40°C, relative humidity 85% or less (at 35°C) with no condensation
- Operation temperature/humidity range: 0 to 40°C, relative humidity 85% or less (at 35°C) with no condensation
- Power: 4 AA-size alkaline dry batteries or nickel-metal-hydride rechargeable batteries, USB bus power or special AC Adapter
- Size (W x H x D): 66 x 159.5 x 85 mm
- Weight: 420 g (without batteries)

Dimensions (Units: mm)

- CR-20 body: 66 x 159.5 x 85 mm
- Protective glass: 85 mm

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.
- Be sure to use the specified batteries. Using improper batteries may cause a fire or electric shock.

Your local distributor of Konica Minolta measuring instruments:

Thermo Fisher Scientific

Australia: For customer service, call 1300-735-292
Visit us online at: www.thermofisher.com.au

New Zealand: For customer service, call 0800-933-966
Visit us online at: www.thermofisher.co.nz

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