



KONICA MINOLTA

COLOR READER CECF-9

Measure, search and identify
any colour from any colour-fan

Stores up to 5.000 colour
standards

Battery operated and thus
fully stand-alone capable

Unprecedented easy and
fast operation

Sphere geometry and 8mm
aperture, perfect for all
sample sizes and structures



The „**Customised Electronic Colour-Fan**“ **CECF-9** is a unique and simple to use instrument to instantly assign any measured colour out of up to 5.000 stored reference colours from colour-fans such as RAL, NCS etc.

The **CECF-9** is an ideal instrument for Point of Sales applications, designers, interior decorators, architects or colour consultants for instant colour identifications according to colour-fan codes instead of colorimetric values

UNIQUE, RELIABLE AND EASY TO USE CONCEPT

The CECF-9 is a very unique, compact and light instrument to instantly identify and assign any measured colour to one of the 5.000 stored standard colour codes of colour fans such as RAL, NCS or any other colour swatchbook. Together with the very easy operation and stand-alone function, the CECF-9 is the ideal tool to be used as „color identifier“ at Points of Sale in Do-it-Yourself and paint retail shops.

Operation is as simple as counting from 1 to 3: 1. Switch power on, 2. Calibration with attached white tile, 3. Measure the sample and read the identified color code!

By using a sphere geometry (8:di) and 8mm measuring area, the CECF-9 can handle all sample sizes and shapes with very high reliability. Battery operation allows full autonomy, independent from PC and thus, carry the instrument to the sample.

The optional „Data-Management-Software“ allows to manage the memory content of the CECF-9 for up to 5.000 colour standards at any time. New colour standards can be added, others deleted and then the new data-set can be simply copied to the EPROM of any other CECF-9 instruments.

Specifications:

Illuminating /Viewing system	Eight degree illumination; Diffuse measurement geometry 8°:di (specular included) Conforms to CIE 15.3, ISO 7024-1, DIN 5033-7, ASTM E1164 and JIS Z 8722.
Receptors	6 silicon photocells filtered to detect primary stimulus values for red, green and blue
Measurement / Illumination Area	8 mm / 11 mm
Measurement Range	10 - 100 L*
Light Source	Halogen Thungsten lamp
Measuring Conditions	CIE 10° Standard Observer; Illuminant D65
Measurement Time	1 second
Minimum Measurement Interval	3 seconds
Repeatability	dE*ab standard deviation 0.1
Data Memory	5000 standard data sets
Display Mode	9 digit of Colour-Code (alphanumeric) with colour difference indications by symbols: no Symbol = dE*ab max. 1.5 + = dE*ab 1.5 - 3.0, ++ = dE*ab < 3.0
Power Source	4 AA size batteries or optional AC Adapter
Dimensions / Weight	59 x 158 x 85mm; 360g (without batteries)
Standard Accessories	Soft Case CR-A68; Protective Cap incl. White Plate CR-A72; Wrist Strap CR-A73; 4 AA-size batteries
Optional Accessories	AC Adapter AC-A13, RS-232C Cable CR-A77 Data-Management Software



This mark indicates ISO 9001:2000-certified quality management system.

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.

Konica Minolta Sensing, Inc.
Konica Minolta Sensing Americas, Inc.
Konica Minolta Sensing Europe B.V.

Osaka, Japan
New Jersey, U.S.A.
European Headquarter/BENELUX
German Office
French Office
UK Office
Italian Office
Belgian Office
Swiss Office
Nordic Office
Austrian Office
Polish Office

Phone: 888-473-2656 (in USA), 201-236-4300 (outside USA)
Nieuwegein, The Netherlands
München, Germany
Roissy CDG, France
Milton Keynes, United Kingdom
Milan, Italy
Zaventem, Belgium
Dietikon, Switzerland
Västra Frölunda, Sweden
Wien, Austria
Warszawa, Poland

Fax: 201-785-2480
Fax: +31(0)30 248-1280
Fax: +49(0)89 4357 156 99
Fax: +33(0)1 493-84771
Fax: +44(0)1908 540-629
Fax: +39 02 39011.223
Fax: +32 (0)2 7170 977
Fax: +41(0)43 322-9809
Fax: +46(0)31 474945
Fax: +43(0)1 87882-431
Fax: +48(0)71 734 52 10

Konica Minolta (CHINA) Investment Ltd. SE Sales Division
SE Beijing Office
SE Guangzhou Office

Shanghai, China
Beijing, China
Guangzhou, China

Phone: +86-021-5489 0202
Phone: +86-010-8522 1551
Phone: +86-020-3826 4220

Fax: +86 -021-5489 0005
Fax: +86-010-8522 1241
Fax: +86-020-3826 4223

Konica Minolta Sensing Singapore Pte Ltd.

Singapore

Phone: +65 6563-5533

Fax: +65 6560-9721

Konica Minolta Sensing, Inc.

Seoul Office

Seoul, Korea

Phone: +82(0)2-523-9726

Fax: +82(0)2-523-9729