

Считыватели цвета BC-10 PLUS, CR-10 Plus

Технические характеристики

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Colorimeter BC-10 PLUS

The BC-10 provides straightforward color information in Baking Contrast Units (BCU) to achieve the most appetising color of baked products. Highly portable, battery powered and also able to supply L*a*b* color data.



Introduction

The Color Reader BC-10 PLUS is a unique handheld colorimeter for fast and easy measurement the backing contrast of all kind of bakery products including breads, buns, cookies and other food products to control the baking process in the production line.

Very easy to use and battery powered, the BC-10 delivers a single baking contrast unit (BCU) or classic L*a*b* colour values displayed on the LCD screen.

Despite the simple operation, the BC-10 PLUS is a true colorimeter in full compliance with CIE, ISO and DIN standards as one can expect from Konica Minolta.

Features

Objective colour control of baked products

With the BC-10 PLUS, one can monitor and control the colour of backed, fried, smoked and processed foods as well as ingredients in various environments to ensure consistency in appearance. It is the ideal solution for multi-plant, multi-lined companies, co-packers and restaurant chains that seek enhanced consistency and quality of their products' appearance.

Besides the crust colour, the BC-10 PLUS measures colour on all kind of bakery and snack food products, yeast, brown sugar, calcium propionate, and flour blending.

The BC-10 PLUS is very simple to use, compact and light-weight, battery-operated and can display the measured values in Baking Contrast Units (BCU), a standard grading scale in the baking industry, or classic CIELab colour values.

The illumination by Xenon lamp assures repeatable and correct colour measurements, while data can be stored internally and transferred to a PC using the USB connection, or printed out using an external printer.

Specifications

Principal Specifications BC-10 PLUS

Model	Colorimeter BC-10 PLUS
Illumination / Viewing geometry	8°:di (8° illumination angle/diffuse viewing, specular component included (SCI); DIN5033 Teil7, JIS Z 8722 condition d, ISO7724/1, CIE No.15、ASTM E 1164)
Light source	Pulsed Xenon lamp
Receptors	6 silicon photocells (3 for measurement, 3 to control illumination)
Measuring/Illumination area	Ø 8 mm /11 mm
Display modes	Absolute Colour values (L*a*b* or L*C*h°) 0.01 - 5.25 BCU (Baking Contrast Units)
Memory	1,000 (Target data and measurement data)
Measuring range	L*: 10 to 100
Illuminant/observer condition	D65 / 10°
Repeatability	Standard deviation within ΔE^*_{ab} 0.1 (Measurement conditions: average of standard white plate measurements)
Minimum interval between measurements	Approx. 3 sec
Language support	English, Japanese, Chinese
Power source	Four AA-size batteries, USB bus power or Optional AC Adapter
Battery life	Alkaline-manganese batteries: Approx.2000 measurements at 10-sec. intervals Ni-Cd batteries: Approx. 600 measurements at 10-sec intervals
Operating temperature/humidity range	0 - 40°C; relative humidity 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	-20 - 55°C; relative humidity 85% or less (at 35°C) with no condensation
Dimensions (W x H x D)	66 x 158 x 85 mm
Weight	Approx. 420 g without batteries
Standard accessories	Target mask, Softcase, Protective cap, Wrist Strap, AA size batteries, USB cable

Model	Colorimeter BC-10 PLUS
Optional accessories	AC adaptor, Thermo-printer, roll paper for Thermo-printer, Dust Cover, USB-AC adaptor, Hardcase

Specifications are subject to change without prior notice.

Optional accessories for BC-10 PLUS

AC adaptor

USB-AC adaptor

Thermo-printer

Roll paper for Thermo-printer

Dust Cover

Hardcase

Colorimeter CR-10 Plus

The CR-10 is a simple color reader ideal for measuring color difference between two samples, the instrument is a full colorimeter in compliance with DIN 5033.



Introduction

The Color Reader CR-10 PLUS is an affordable handheld colorimeter for quick and easy colour control on almost any samples and materials. Just measure the target followed by the sample to compare the colour difference in objective CIELAB colour difference values displayed on the LCD screen.

Despite the simple operation, the CR-10 PLUS is a true colorimeter in full compliance with CIE, ISO and DIN standards as one can expect from Konica Minolta.



Features

The CR-10 PLUS represents the entry point to objective colour measurement. Compared to many other entry level devices, the CR-10 PLUS is a true colorimeter in full compliance with CIE, ISO and DIN 5033 standards.

Extremely simple to use, the CR-10 PLUS allows fast colour difference measurements between a target

colour and a sample in just 2 steps. On the LCD screen colour difference are shown in CIELAB $\Delta L^* \Delta a^* \Delta b^*$ and ΔE^*_{ab} or $\Delta L^* \Delta C^* \Delta H^*$ and ΔE^*_{ab} values.

The 8 mm measuring area (illuminated area 11 mm) and the sphere geometry (8°:di) suits almost any sample size or surface; for those applications needing a smaller spot size, the optional small spot set can decrease this measurement spot to 5 mm.

The illumination by Xenon lamp, according to CIE standard illuminant D65 and 10° observer assure repeatable and correct colour measurements.
Data can be stored internally and transferred to a PC using the USB connection, or printed out using an external printer.

Specifications

Principal Specifications CR-10 PLUS

Model	Colorimeter CR-10 PLUS
Illumination / Viewing geometry	8°:di (8° illumination angle/diffuse viewing, specular component included (SCI); DIN5033 Teil7, JIS Z 8722 condition d, ISO7724/1, CIE No.15、ASTM E 1164)
Light source	Pulsed Xenon lamp
Receptors	6 silicon photocells (3 for measurement, 3 to control illumination)
Measuring/Illumination area	Ø 8 mm /11 mm (Optional Ø 5 mm /5 mm)
Display modes	Absolute Colour values ($L^*a^*b^*$ or $L^*C^*h^°$; for targets only) Colour difference values (ΔL^* , Δa^* , Δb^* , ΔC^* , ΔH^* , ΔE^*_{ab})
Memory	1,000 (Target data and measurement data)
Measuring range	L^* : 10 to 100
Illuminant/observer condition	D65 / 10°
Repeatability	Standard deviation within ΔE^*_{ab} 0.1 (Measurement conditions: average of standard white plate measurements)
Minimum interval between measurements	Approx. 3 sec
Language support	English, Japanese, Chinese
Power source	Four AA-size batteries, USB bus power or Optional AC Adapter

Battery life	Alkaline-manganese batteries: Approx.2000 measurements at 10-sec. intervals
Operating temperature/ humidity range	0 - 40°C; relative humidity 85% or less (at 35°C) with no condensation
Storage temperature/ humidity range	-20 - 55°C; relative humidity 85% or less (at 35°C) with no condensation
Dimensions (W x H x D)	66 x 158 x 85 mm
Weight	Approx. 420 g without batteries
Standard accessories	Target mask, Softcase, Protective cap, Wrist Strap, AA size batteries, USB cable
Optional accessories	Small aperture (5mm) measurement set, AC adaptor, Thermo-printer, roll paper for Thermo-printer, Dust Cover, USB-AC adaptor, Hardcase

Specifications are subject to change without prior notice.

Accessories

Optional accessories for CR-10 PLUS

CR-A92 Small Aperture (5mm) Measurement Set

(including Target Mask Ø 5 mm < for SAV > without plate and Target Guide)

Item Order Code: A80F-704



AC-A305 AC Adaptor

Item Order Code: A80F-713

AC-A308 USB AC Adapter

Item Order Code: A32T-713

Thermo-printer

Item Order Code:

Roll paper for Thermo-printer

Item Order Code:

CR-A91 Dust Cover

Item Order Code: A80F-601

CR-A90 Hard Case

Item Order Code: A80F-600

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