BC-10 PLUS
BAKING CONTRAST METER

Monitor and control the color of baked, fried, smoked, and processed foods, including ingredients. Establish specifications for crust, crumb, and ingredients. Ensure consistency in product appearance.

The food industry is a highly competitive business with production becoming a more exacting science. Consumers want their products to have a consistent appearance from purchase to purchase, and the color of your products will directly affect the sale of those products. Designed for contact measurements, Konica Minolta's BC-10 Plus provides reliable, precise color measurements through all stages of food production. The BC-10 Plus is not affected by lighting conditions, and eliminates inconsistencies and obstacles such as "human eye" subjectivity.

▶ PRODUCTION CONTROL
Controls specifications of crust color, crumb color, and related formulation adjustments. Simplifies co-packing procedures.

▶ SALES & MARKETING
Establishes customer specifications and settles customer complaints.

▶ LABORATORY AND R&D ANALYSIS
Rheology, product research and development specifications.

▶ TRAINING
Trains employees to assess color quality in minutes, with high degrees of accuracy.

▶ PREVENTIVE MAINTENANCE
Oven, Fryer, smoker and cooker adjustment. Top vs. bottom differential, and lateral heat dispersion.

Giving Shape to Ideas
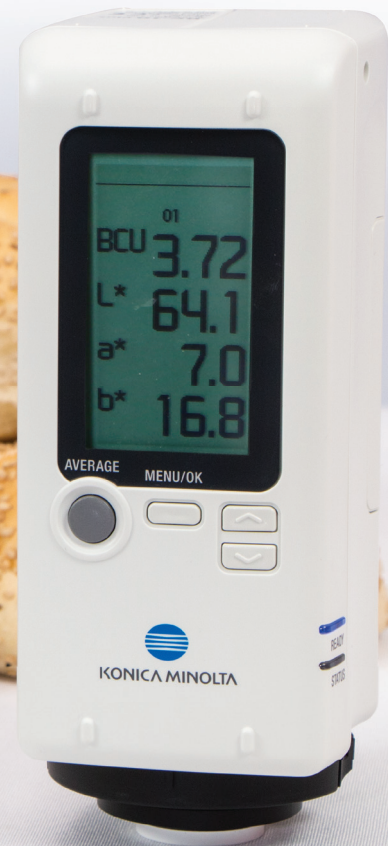
SIMPLE OPERATION

Fast, easy, and accurate for production-level environments. Even first-time users can operate the BC-10 Plus quickly and easily.

1. Switch on the power.
2. Perform white tile calibration.
3. Place on product and press button.
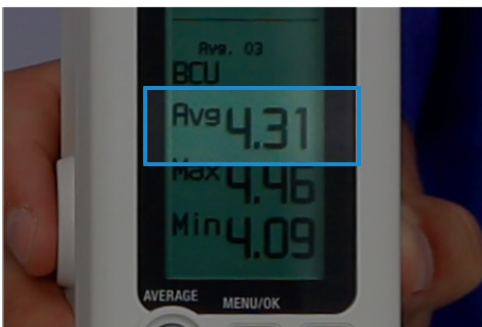4. Measurement results are displayed immediately.

DISPLAY EXAMPLES
BAKING CONTRAST UNITS (BCU)

A Baking Contrast Unit is the measure of the lightness or darkness of a product. BCUs range from 0 for the darkest to 5.25 for the lightest. Each change of 0.1 BCU equals approximately on discernible shade to the human eye.

AVERAGING FUNCTION

The BC-10 Plus takes as many measurements as required, and can store up to 16 readings at a time. To display the average of the stored readings, simply press the Average Button.

CONVENIENT FUNCTIONS

1. Protective plastic plate on measurement aperture allows direct contact measurements of products and ingredients without the need for filling a cell, test tube, or petri dish.

2. Using the PC application stored in the BC-10 Plus, you can set the instrument to store data internally (Memory capacity: 1000 data), transfer stored data to the PC, or take measurements from the PC.
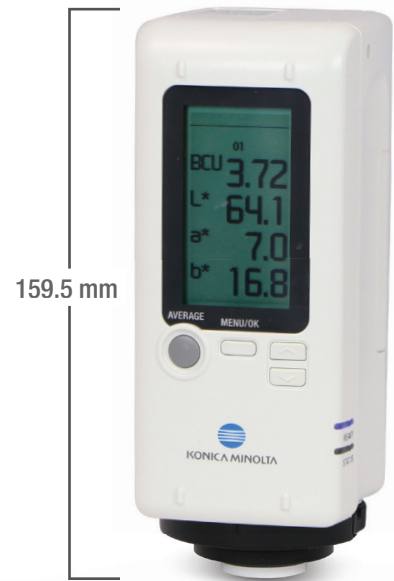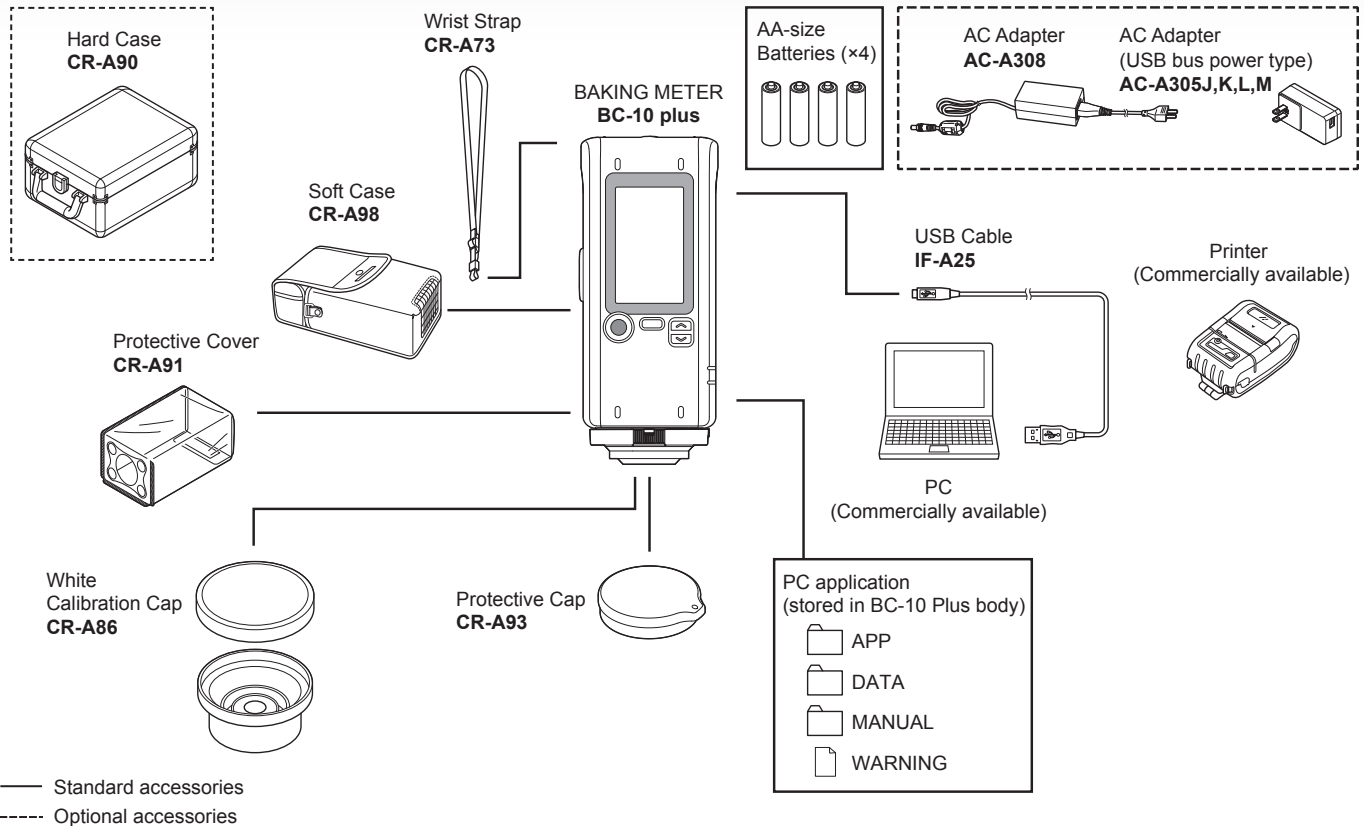

3. By connecting a printer to the BC-10 Plus, you can print out measuring data.

RUGGED AND LIGHTWEIGHT

The durable BC-10 Plus is compact, lightweight, and fits comfortably in your hand. It is battery powered for optimum convenience - you can take the product to the meter or bring the meter to the product. Includes wrist strap for added security.

159.5 mm

Hard Case **CR-A90**

Wrist Strap **CR-A73**

Soft Case **CR-A98**

BAKING METER **BC-10 plus**

AA-size Batteries (×4)

AC Adapter **AC-A308**

AC Adapter (USB bus power type) **AC-A305J,K,L,M**

Protective Cover **CR-A91**

USB Cable **IF-A25**

Printer (Commercially available)

White Calibration Cap **CR-A86**

Protective Cap **CR-A93**

PC (Commercially available)

PC application (stored in BC-10 Plus body)
- APP
- DATA
- MANUAL
- WARNING

—— Standard accessories
----- Optional accessories

Specifications	Baking Meter BC-10 Plus
Illumination/viewing system	8° : di (8° illumination angle/diffuse viewing: specular component included) (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.)
Display Range	BCU: 0.01 to 5.25
Light Source	Pulsed xenon lamps
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
Interface	USB 2.0
Observer	10° Standard Observer
Iluminant	D65
Displayed Data	Colorimetric data, average (up to 16 times)
Color Space	L*a*b*
Colorimetric Indexes	BCU
Data Memory	Sample data (up to 1,000)
Operation Temperature/Humidity Range	0 to 40°C, relative humidity 85% or less (at 35°C) with no condensation
Storage Temperature/Humidity Range	-20 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)

PC System Requirements
- OS: Windows 7 Professional 32bit, 64 bit, Windows 8 Pro 32bit, 64bit, Windows 8.1 Pro 32bit, 64bit, Windows 10 Pro 32bit, 64bit (English)
- The hardware of the computer system to be used must meet or exceed the recommended system requirements for compatible OS being used.
- One USB2.0 port is necessary.

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, INC.　　　　　Osaka, Japan
Konica Minolta Sensing Americans, Inc.

　　　　　　　New Jersey, U.S.A　　　　　Phone: 888-473-2656 (in USA)　　　Fax: 201-785-2482
　　　　　　　　　　　　　　　　　　　201-236-4300 (outside USA)

Konica Minolta Sensing Europe B.V.

European Headquarter/ BENELUX	Nieuwegein, Netherlands	Phone: +31(0)30 248-1193	Fax: +31(0)30 248 1280
German Office	München, Germany	Phone: +49(0)89 4357 156 0	Fax: +49(0)89 4357 157 99
French Office	Roissy CDG, France	Phone: +33(0) 1 80 11 10 70	Fax: +33(0) 1 80 11 10 82
UK Office	Warrington, UK	Phone: +44(0) 1925 467300	Fax: +44(0) 1925 711143
Italian Office	Cinisello Balsamo, Italy	Phone: +39 02849488.00	Fax: +39 02849488.30
Swiss Office	Dietikon, Switzerland	Phone: +41(0)43 322 9800	Fax: +41(0)43 322 9809
Nordic Office	Västra Frölunda, Sweden	Phone: +46(0)31 7099464	
Polish Office	Wroclaw, Poland	Phone: +48(0)71 73452- 11	Fax: +48(0)71 734 52 10

Konica Minolta (CHINA) Investment Ltd.

SE Sales Division	Shanghai, China	Phone: +86- (0)21 5489 0202	Fax: +86- (0)21-5489 0005
Beijing Office	Beijing, China	Phone: +86- (0)10-8522 1551	Fax: +86- (0)10-8522 1241
Guangzhou Office	Guangdong, China	Phone: +86- (0)20-3826 4220	Fax: +86- (0)20-3826 4223
Chongqing Office	Chongqing, China	Phone: +86- (0)23-6773 4988	Fax: +86- (0)23-6773 4799
Qingdao Office	Shandong, China	Phone: +86- (0)532-8079 1871	Fax: +86- (0)532-8079 1873
Wuhan Office	Hubei, China	Phone: +86- (0)27-8544 9942	Fax: +86- (0)27-8544 9991

Konica Minolta Sensing Singapore Pte Ltd.
Singapore　　　　　　　　　　　　　　Phone: +65 6563-5533　　　　　　　Fax: +65 6560-9721

Konica Minolta Sensing Korea Co. Ltd.
Goyang-si, Korea　　　　　　　　　　Phone: +82(0)2-523-9726　　　　　　Fax: +82(0)31-995-6511

Addresses and telephone/fax numbers are subject to change without notice. For the latest contact
information, please refer to the KONICA MINOLTA Worldwide Offices web page:

KonicaMinolta.com/instruments/network

　　　　　　　　　　　　　　　　　　　　　　　　　　　　201606SUS-ENG