

# BC-10

## BC-10 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 provides reliable, precise color measurements through all stages of food production. The BC-10 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.
- **Laboratory and R&D Analysis** - Rheology, product research and development specifications.
- **Preventive Maintenance** - Oven, Fryer, smoker and cooker adjustment. Top vs. bottom differential, and lateral heat dispersion.
- **Sales & Marketing** - Establishes customer specifications and settles customer complaints.
- **Training** - Trains employees to assess color quality in minutes, with high degrees of accuracy.



## Simple Operation

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

DATA 1      BCU 3.35

A Baking Contrast Unit is the measure of the lightness or darkness of a product. Developed specifically for the food industry, BCU is a derivative of the "L" value in standard tristimulus colorimetry. 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.

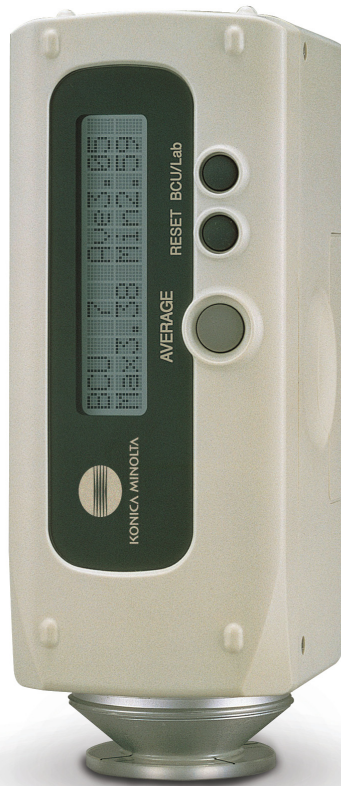
### AVERAGING FUNCTION

DATA 7      AVE 3.05  
 MAX 3.33      MIN 2.59

The BC-10 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.

## Rugged and lightweight

The durable BC-10 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.

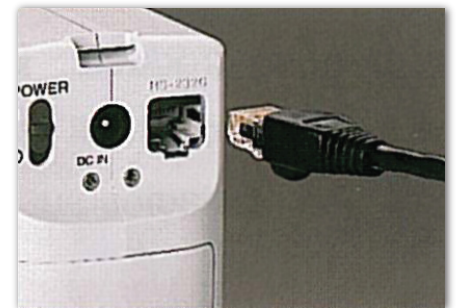


## Convenience Functions

Protective window inserts allow direct contact measurements of products and ingredients without the need for filling a cell, test tube, or petri dish.



Optional RS-232 Output Cable enables continuous ASCII output of measurement data to a printer, computer, or storage device.



Two measuring modes: BCU and L\*a\*b\*  
 Uses four AA-size batteries or optional AC Adapter.

## Specifications

Illuminating/viewing system

Measuring Area

Display Modes

Repeatability

Statistical Capability

Data Output

Minimum interval between measurements

Power Source

Operating temperature range

Size

Weight

Standard Accessories

Optional Accessories

8/d (8" illumination/diffuse viewing)

8mm round

0.01 - 5.25 BCU (Baking Contrast Units) & L\*a\*b\*

Standard deviation within  $\Delta E^*ab$  0.1 (Measurement conditions: average of measurements of standard white plate)

Minimum, Maximum, and Mean Computation on last 16 measurements

RS-232C ASCII data output stream

0.7 seconds initial, 0.4 seconds continuous

Four AA-size batteries or optional AC adapter

-20 to 40°C (-4 to 104°F) no condensation

59 x 159 x 85mm (2¼ x 3¼ x 6¼ in.)

370g (12.7 oz.) not including batteries

Soft Case CR-A68, Wrist Strap CR-A73, Protective Cap CR-A72, Measurement Window Cap w/ 2 windows, Instructional Videotape, Four AA Batteries

AC-A12 AC Adapter, RS-232 cable, Mini-Printer, Value Plus Warranty Program



### 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.

The specifications and drawings given here are subject to change without prior notice.

- If you have any questions about the specifications, please contact your Konica Minolta representative.



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