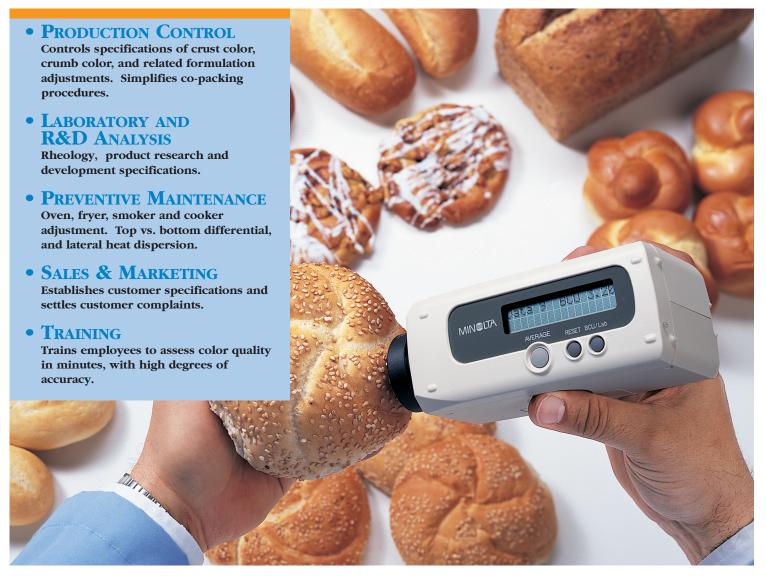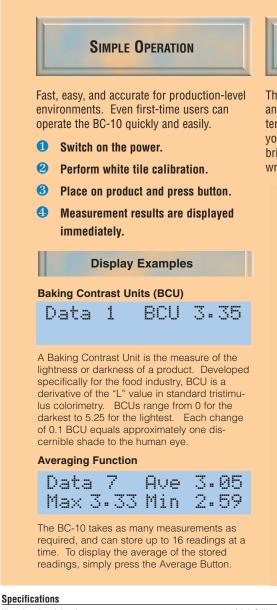# BC-10
Baking Contrast Meter

KONICA MINOLTA

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.

The essentials of imaging

BC-10 Baking Contrast Meter

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 one 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	8/d (8˚ illumination/diffuse viewing)
Measuring Area	8mm round
Display Modes	0.01 - 5.25 BCU (Baking Contrast Units) & L*a*b*
Repeatability	Standard Deviation within ΔE^*ab 0.1 (Measurement conditions: average of measurements of standard white plate)
Statistical Capability	Minimum, Maximum, and Mean Computation on last 16 measurements
Data Output	RS-232C ASCII data output stream
Minimum interval between measurements	0.7 seconds initial, 0.4 seconds continuous
Power Source	Four AA-size batteries or optional AC Adapter
Operating temperature range	0 to 40˚C (32 to 104˚F); less than 85% relative humidity, no condensation
Storage temperature range	-20 to 40˚C (-4 to 104˚F) no condensation
Size	59 x 159 x 85mm (2 1/4 x 3 1/4 x 6 1/4 in.)
Weight	370g (12.7 oz.) not including batteries
Standard Accessories	Soft Case CR-A68 , Wrist Strap CR-A73 , Protective Cap CR-A72, Measurement Window Cap w/ 2 windows, Instructional Videotape, Four AA Batteries
Optional Accessories	AC-A12 AC Adapter, RS-232 cable, Mini-Printer, Value Plus Warranty Program