

# R700

## B & W REFLECTION DENSITOMETER

### HIGH PERFORMANCE & RELIABILITY

Ihara Electronic Industries utilizes advanced microcomputer technology to ensure superior performance and reliability for its entire line of densitometric products. Standard functions include: Density, density difference, dot area, dot gain, print contrast and dot analysis.

### MENU DRIVEN COMMANDS

Simply select the functions desired. No memorization or operation manual required.

### SELF-GUIDING PROMPTS

Clear and concise instructions are prompted across the large graphic LCD display in every measurement.

### HELP KEY PROVIDES EXPLANATION OF KEY FUNCTIONS

Detailed explanations are available for all measurement functions along with answers to frequently asked questions.

### QUICK CALIBRATION

It takes seconds to calibrate using the quick calibration function. Standard calibration is also available.

### LARGE GRAPHIC LCD DISPLAY

The easy to read graphic LCD display allows the user to determine the precise configuration desired, including right or left handed view, two or three decimal precision and display options.

### PRINTER AND COMPUTER INTERFACE

The configurable RS-232C serial interface is capable of linking the R700 to a computer or to the IHARA PR-95 printer.

### SECURITY USER CODE (OPTIONAL)

As an option to safeguard your investment, the R700 may be set to operate only with the correct user code.

# IHARA

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## IHARA R700 B & W REFLECTION DENSITOMETER SPECIFICATIONS

- **MEASUREMENT FUNCTIONS**
  - Density
  - Density Difference
  - Dot Area (Murray-Davies or Yule-Nielsen)
  - Dot Gain
  - Print Contrast
  - Dot Analysis (Print Characteristic Curve)
- **FILTER RESPONSE**
  - Visual (ISO 5/3)
- **MEASURING GEOMETRY**
  - 0°/45° (ANSI PH2.17, ISO 5/4, DIN 16536)
- **MEASURING RANGE**
  - Density 0.00D - 2.50D
  - Dot Area 0% - 100%
- **REPEATABILITY**
  - ± 0.01D or 1%
- **ACCURACY**
  - ± 0.02D or 2%
- **LIGHT SOURCE**
  - Halogen Lamp, Approximately 2856°K
- **APERTURE DIAMETER**
  - 3.0mm (1.7mm optional)
- **DETECTOR**
  - GaAsP Photodiode
- **DISPLAY**
  - 128 x 64 Dot Graphic LCD
- **POWER SUPPLY**
  - Ni-Cad (4.8V), 800mAh
- **RECHARGE TIME**
  - Approximately 1.5 hours
- **MEASUREMENTS PER CHARGE**
  - Approximately 4,000 (Internal Testing)
- **WARM UP TIME**
  - None
- **MEASURING TIME**
  - Approximately 1 second
- **OPERATING TEMPERATURE RANGE**
  - 41°F ~ 104°F (5°C ~ 40°C)
- **POLARIZATION FILTER**
  - (Optional)
- **SECURITY USER CODE**
  - (Optional)
- **DIMENSIONS**
  - 2 3/4"W x 2"H x 8 1/4"L
  - (72mm x 50mm x 210mm)
- **WEIGHT**
  - 1.2 lbs. (With Batteries)
  - (530 g)
- **COMPUTER OUTPUT**
  - Configurable RS-232C Serial Interface
- **ACCESSORIES**
  - Operation Manual
  - Calibration Standard
  - AC Adapter (9V, 500mA, center-negative)
  - Carrying Case
  - Serial Interface Cable (Optional)
  - Ihara PR-95 Printer (Optional)
  - Software (Optional)
  - Cable Harness (Optional)

Specifications subject to change without notice.  
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