

HI97735

# Total Hardness Portable Photometer



- **Advanced LED optical system**
  - Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
  - LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce little heat, which could otherwise affect electronic stability.
- **CAL Check™**
  - Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards. The CAL Check screen guides the user step-by-step through the validation process and user calibration.
- **On-screen tutorial mode with animations**
  - Guides users step-by-step through the measurement process
- **Waterproof and floating IP67 case**
- **Unit of measure is displayed along with reading**
- **Built-in timer**
  - Built-in reaction timer that ensures consistency between tests.
- **Error messages on display**
  - Alerts to problems including no cap, high zero, and standard too low
- **GLP data**
  - Displays the last calibration date.
- **Auto logging**
- **Battery status indicator**
- **Auto-shut off**

## HI97735 Total Hardness

### Specifications

Total Hardness LR	Range	0 to 250 mg/L (as CaCO <sub>3</sub> )
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±5 mg/L ±4% of reading at 25°C
	Method	Adaptation of the EPA recommended method 130.1
Total Hardness MR	Range	200 to 500 mg/L (as CaCO <sub>3</sub> )
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±7 mg/L ±3% of reading at 25°C
	Method	Adaptation of the EPA recommended method 130.1
Total Hardness HR	Range	400 to 750 mg/L (as CaCO <sub>3</sub> )
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±10 mg/L ±2% of reading at 25°C
	Method	Adaptation of the EPA recommended method 130.1
Measurement System	Light Source	light emitting diode
	Bandpass filter	466 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
Additional Specifications	Auto logging	50 readings
	Display	128 x 64 pixel B/W LCD with backlight
	Auto-off	after 15 minutes of inactivity (30 minutes before a READ measurement)
	Battery type / Life	alkaline 1.5 V AA (3) / > 800 measurements (without backlight)
	Environment	0 to 50°C (32 to 122°F); 0 to 100% RH, non-serviceable
	Dimensions	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
Weight	380 g (13.4 oz.)	

**HI97735** is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), instrument quality certificate, and instruction manual.

CAL Check standards and testing reagents sold separately

**HI97735C** includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, CAL Check standard certificate, instrument quality certificate, instruction manual, and HI7101414 rigid carrying case. Reagents sold separately

### Ordering Information

### Reagents and Standards

HI97735	<b>HI97735-11</b> CAL Check standard cuvettes for total hardness LR, MR, HR
	<b>HI93735-00</b> total hardness LR reagent for 100 tests
	<b>HI93735-01</b> total hardness MR reagent for 100 tests
	<b>HI93735-02</b> total hardness HR reagent for 100 tests
	<b>HI93735-0</b> reagents for 300 tests (LR - 100 tests, MR - 100 tests, HR - 100 tests)

See page 10.102 for standard reagents; see page 10.103 for CAL Check kits; see page 10.46 for general accessories