

HI97735

Total Hardness Portable Photometer

- **Advanced LED optical system**
 - 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 the performance of the instrument at any time and apply a user calibration 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
- **Auto logging**
- **GLP**
 - Review of the last calibration date.
- **On-screen tutorial mode with animations**
 - The built in Tutorial mode guides users step-by-step through the measurement process.
- **Waterproof and floating IP67 case**
- **Auto-shut off**
 - Automatic shut off after 15 minutes of inactivity and 30 minutes before a read measurement.
- **Battery status indicator**
 - Indicates the amount of battery life left.
- **Built-in timer**
 - Display of time remaining before a measurement is taken. Ensures that all readings are taken at the appropriate reaction intervals for the test being performed.
- **Error messages**
 - Messages on display alerting to problems including no cap, high zero, and standard too low.
- **Units of measure**
 - Appropriate unit of measure is displayed along with reading.



Specifications

HI97735 Total Hardness

	Range	0 to 250 mg/L (as CaCO ₃)
Total Hardness LR	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 ₃)
	Resolution	1 mg/L
	Accuracy @25°C (77°F)	±7 mg/L ±3% of reading at 25°C
Total Hardness HR	Method	Adaptation of the EPA recommended method 130.1
	Range	400 to 750 mg/L (as CaCO ₃)
	Resolution	1 mg/L
Measurement System	Accuracy @25°C (77°F)	±10 mg/L ±2% of reading at 25°C
	Method	Adaptation of the EPA recommended method 130.1
	Light Source	light emitting diode
Measurement System	Bandpass filter	466 nm
	Bandpass filter bandwidth	8 nm
	Bandpass filter wavelength accuracy	±1.0 nm
Additional Specifications	Light Detector	silicon photocell
	Cuvette type	round 24.6 mm diameter (22 mm inside)
	Auto logging	50 readings
Additional Specifications	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)
Additional Specifications	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

Ordering Information

HI97735C includes photometer, CAL Check cuvette A, CAL Check cuvette B for total hardness LR, MR and HR, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, instrument quality certificate, instruction manual and HI7101414 rigid carrying case.

Reagents sold separately

Reagents and Standards	HI97735	HI97735-11 CAL Check standard cuvettes for total hardness LR, MR, HR
		HI93735-00 hardness LR reagent (100 tests)
		HI93735-01 hardness MR reagent (100 tests)
		HI93735-02 hardness HR reagent (100 tests)
		HI93735-0 reagents for 300 tests (LR - 100tests, MR - 100 tests, HR - 100 tests)