HI97700 · HI97715

Ammonia LR and MR Portable Photometers

- **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		HI97700 Ammonia LR	HI97715 Ammonia MR
Measurement	Range	0.00 to 3.00 mg/L (ppm) (as NH$_3$–N)	0.00 to 10.00 mg/L (ppm) (as NH$_3$–N)
	Resolution	0.01 mg/L	0.01 mg/L
	Accuracy @25°C (77°F)	±0.04 mg/L ±4% of reading	±0.05 mg/L ±5% of reading
	Method	adaptation of the ASTM Manual of Water and Environmental Technology, D1426 Nessler method	
Measurement System	Light Source	light emitting diode	
	Bandpass filter	420 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.)	

Ordering Information	
	HI97700 and **HI97715** are 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
	HI97700C and **HI97715C** include photometer, CAL Check standards, sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, instrument quality certificate, instruction manual and HI7101412 rigid carrying case. Reagents sold separately

Reagents and Standards		
	HI97700	**HI97700-11** CAL Check standard cuvettes for Ammonia LR
		HI93700-01 ammonia LR reagent (100 tests)
		HI93700-03 ammonia LR reagent (300 tests)
	HI97715	**HI97715-11** CAL Check standard cuvettes for Ammonia MR
		HI93715-01 Ammonia MR reagent (100 tests)
		HI93715-03 Ammonia MR reagent (300 tests)