HI97737

Silver 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

Significance of Use

At times, silver is used in the disinfection of pools and spas, as well as in water filters. As small quantities of silver acts as a bacteriostatic agent preventing the growth of bacteria. The presence of silver in water is also indicative of pollution, mainly from film manufacturers, film processors, and surface finishers. Silver levels are closely monitored since its presence in drinking water can cause discoloration of the skin, eyes, and mucous membranes.

Specifications		HI97737 Silver
Measurement	Range	0.000 to 1.000 mg/L (ppm) (as Ag)
	Resolution	0.001 mg/L
	Accuracy @25°C (77°F)	±0.020 mg/L ±5% of reading
	Method	adaptation of the PAN method
Measurement System	Light Source	light emitting diode
	Bandpass filter	575 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	**HI97737** 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	
Reagents and Standards	HI97737	**HI97737-11** CAL Check standard cuvettes for silver
		HI93737-01 silver reagents for 50 tests
		HI93737-03 silver reagents for 150 tests