

Specifications HI97712 Aluminum Range $0.00 \text{ to } 1.00 \text{ mg/L (ppm) (as Al}^{3+})$ Resolution 0.01 mg/L (ppm) Measurement Accuracy @25°C (77°F) ± 0.04 mg/L $\pm 4\%$ of reading Method adaptation of the aluminon method Light Source light emitting diode Bandpass filter 525 nm Bandpass filter 8 nm bandwidth Measurement System Bandpass filter ±1.0 nm wavelength accuracy Light Detector silicon photocell Cuvette type round 24.6 mm diameter (22 mm inside) Auto logging 50 readings Display 128 x 64 pixel B/W LCD with backlight after 15 minutes of inactivity (30 minutes before Auto-off a READ measurement) Additional Specifications alkaline 1.5 V AA (3) / > 800 measurements (without backlight) Battery type / Life 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.) HI97712 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 HI97712C includes photometer, CAL Check standards, sample cuvettes (2), sample caps (2), Information plastic stoppers (2), 1.5V AA batteries (3), cuvette wiping cloth, scissors, CAL Check standard certificate, instrument quality certificate, instruction manual, and HI7101412 rigid carrying case. Reagents sold separately HI97712-11 CAL Check standard cuvettes for aluminum

HI93712-01 aluminum reagents for 100 tests

HI93712-03 aluminum reagents for 300 tests

Aluminum 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™

HI97712

 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

Due to its vast occurrence in minerals, rocks and clays, aluminum is present in nearly all natural water as a soluble salt, a colloid, or an insoluble compound. These forms of aluminum may also appear in treated water and wastewater due to its use during coagulation processes. When concentrations are greater than 0.2 mg/L, water will be colored, but cause no significant human health effects.

HI97712

Reagents and

Standards