

HI97761

Chlorine, Total ULR Portable Photometers



- **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**

Specifications HI97761 Chlorine, Total Ultra Low Range

| | | |
|---------------------------|-------------------------------------|---|
| Measurement | Range | 0.000 to 0.500 mg/L (ppm) (as Cl ₂) |
| | Resolution | 0.001 mg/L |
| | Accuracy @25°C (77°F) | ±0.020 mg/L ±3% of reading |
| | Method | adaptation of the USEPA method 330.5 |
| Measurement System | Light Source | light emitting diode |
| | Bandpass filter | 525 nm |
| | Bandpass filter bandwidth | 8 nm |
| | Bandpass filter wavelength accuracy | ±1.0 nm |
| | Light Detector | silicon photocell |
| Additional Specifications | Cuvette type | round 24.6 mm diameter (22 mm inside) |
| | 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.) | |

HI97761 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

HI97761C 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 rigid carrying case.

Reagents sold separately

Ordering Information

Reagents and Standards

| | |
|---------|---|
| HI97761 | HI97761-11 CAL Check Standard cuvettes for chlorine, total ULR |
| | HI95761-01 chlorine, total ULR reagents for 100 tests |
| | HI95762-03 chlorine, total ULR reagents for 300 tests |

Significance of Use

As one of the oldest and most common forms of disinfection, chlorine improves water quality by destroying disease-producing microorganisms, and by reacting with other organic and inorganic substances. Chlorine levels must be actively monitored to ensure sufficient chlorine is present for disinfection, as well as to control adverse effects such as taste, odor, and potential reactions with organic matter to form harmful disinfection byproducts.