



HI97733

## Ammonia HR 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

Present naturally in surface and wastewaters, ammonia mainly results from the deamination of organic nitrogen-containing compounds and hydrolysis of urea. Ammonia may also be present from water treatment processes that utilize chloramines for disinfection, where ammonia is added to the water to react with chlorine. Ammonia is less likely to appear in groundwater due to adsorption by soil particles.

| Specifications            |                                     | HI97733<br>Ammonia HR  |
|---------------------------|-------------------------------------|--|
| Measurement               | Range                               | 0.0 to 100.0 mg/L (ppm) (as $\text{NH}_4^+$ )  |
|                           | Resolution                          | 0.01 mg/L  |
|                           | Accuracy @25°C (77°F)               | ±0.5 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      |                                     | HI97733 is supplied with sample cuvettes (2), sample caps (2), plastic stoppers (2), 1.5V AA batteries (3), instrument quality certificate, and instruction manual.<br>CAL Check standards and testing reagents sold separately  |
|                           |                                     | HI97733C 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 HI7101412 rigid carrying case.<br>Reagents sold separately |
| Reagents and Standards    | HI97733                             | HI97733-11 CAL Check standard cuvettes for Ammonia HR  |
|                           |                                     | HI93733-01 ammonia HR reagent for 100 tests  |
|                           |                                     | HI93733-03 ammonia HR reagent for 300 tests  |

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