

HI96737

# Silver Portable Photometer

- **CAL Check**
  - Allows for performance verification and calibration of the meter using NIST traceable standards.
- **GLP**
  - Review of the last calibration date.
- **Auto-shut off**
  - Automatic shut off after 10 minutes of non-use when the meter is in measurement mode. Prevents wastage of batteries in the event the meter is accidentally left on.
- **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.
- **Cooling lamp indicator**
  - To maintain the desirable wavelength to be used for absorbance, it is necessary to ensure components are not overheated from the heat generated by the tungsten lamp. Each photometer is designed to allow a minimal amount of time for components to cool. The cooling lamp indicator is displayed prior to a reading being taken.
- **Units of measure**
  - Appropriate unit of measure is displayed along with reading.

The HI96737 portable photometer is for the measurement of silver. Hanna's portable photometers feature an advanced optical system; the combination of a special tungsten lamp, a narrow band interference filter, and silicon photodetector ensure accurate photometric readings every time. The Hanna exclusive CAL Check™ feature utilizes ready-made, NIST traceable standards to verify both meter validation and calibration. The exclusive cuvette locking system ensures that the cuvette is inserted into the measurement cell in the same position every time to maintain a consistent path length.



## Significance of Use

Small quantities of silver are bacteriostatic. At times, silver is used in disinfection of pools and spas, as well as in water filters. The presence of silver in water is generally indicative of pollution, mainly from film manufacturers, film processors, and surface finishers. In fact, silver levels are closely monitored in these sectors since its presence can cause discoloration of the skin, eyes, and mucous membranes.

| Specifications         | HI96737 Silver  |
|------------------------|---|
| Range                  | 0.000 to 1.000 mg/L (ppm)   |
| Resolution             | 0.001 mg/L  |
| Accuracy @ 25°C (77°F) | ±0.005 mg/L ±10% of reading   |
| Light Source           | tungsten lamp   |
| Light Detector         | silicon photocell with narrow band interference filter @ 575 nm   |
| Power Supply           | 9V battery  |
| Auto-off               | after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder   |
| Environment            | 0 to 50°C (32 to 122°F); RH max 95% non-condensing  |
| Dimensions             | 193 x 104 x 69 mm (7.6 x 4.1 x 2.7")  |
| Weight                 | 360 g (12.7 oz.)  |
| Method                 | adaptation of the PAN method  |
| Ordering Information   | <p><b>HI96737</b> is supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual.</p> <p>CAL Check™ standards and testing reagents sold separately</p> |
| Reagents and Standards | <b>HI96737-11</b> CAL Check™ standard cuvettes  |
|                        | <b>HI93737-01</b> reagents for 50 tests   |
|                        | <b>HI93737-03</b> reagents for 150 tests  |