

HI96727

# Color of Water 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 HI96727 portable photometer is for the measurement of color of water. 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

Used in natural water based applications, such as drinking water and municipal wastewater treatment, the color of water may dictate the presence of both unwanted inorganic and organic material; removal results in more suitable water for general and industrial applications. "Color" is applied in this context to represent "true color", where turbidity is removed. Where turbidity removal has been omitted, the term "apparent color" is then applied.

Specifications	HI96727 Color of Water
Range	0 to 500 PCU (Platinum Cobalt Units)
Resolution	10 PCU
Accuracy @25°C (77°F)	±10 PCU ±5% of reading
Light Source	tungsten lamp
Light Detector	silicon photocell with narrow band interference filter @ 420 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	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight	320g (11.3 oz.)
Method	Adaptation of the Standard Method for the Examination of Water and Wastewater 18th Edition, colorimetric platinum cobalt method
<b>Ordering Information</b>	<p><b>HI96727</b> is supplied with sample cuvettes (2) with caps, 9V battery, instrument quality certificate and instruction manual. CAL Check standards and testing reagents sold separately</p> <p><b>HI96727C</b> includes photometer, CAL Check standards, sample cuvettes (2) with caps, 9V battery, scissors, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately</p>
<b>Reagents and Standards</b>	<p><b>HI96727-11</b> CAL Check standard cuvettes</p>
<b>Accessories</b>	<p><b>HI740227</b> filter assembly</p> <p><b>HI740228</b> filter disc</p>