

HI97714

# Cyanide 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

The term "cyanide" refers to all of the CN groups in cyanide compounds that can be determined as the cyanide ion, CN<sup>-</sup>. Originating in water primarily from metallurgical and galvanic industrial plants, cyanide is highly toxic to the human nervous system.

Specifications	HI97714 Cyanide	
Measurement	Range	0.000 to 0.200 mg/L (ppm) (as CN <sup>-</sup> )
	Resolution	0.001 mg/L
	Accuracy @25°C (77°F)	±0.005 mg/L ±3% of reading
	Method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Pyridine-Pyrazolone method
Measurement System	Light Source	light emitting diode
	Bandpass filter	610 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

**HI97714** 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

### Reagents and Standards

HI97714	<b>HI97714-11</b> CAL Check standard cuvettes for cyanide
	<b>HI93714-01</b> cyanide reagents for 100 tests
	<b>HI93714-03</b> cyanide reagents for 300 tests