

HI97106

Chemical Oxygen Demand Portable Photometer

Low, Medium, High, Ultra High Range

The HI97106 is a waterproof portable photometer with an advanced optical system that uses a Light Emitting Diode and a narrow band interference filter for accurate, repeatable readings. The optical system is sealed from outside dust, dirt, and water.

The meter uses an exclusive positive-locking system to ensure that the vials are placed into the holder in the same position every time.

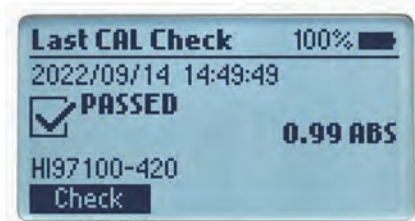
With the CAL Check™ functionality, users are able to validate instrument performance at any time. Hanna Instruments® CAL Check cuvettes are certified against NIST-traceable reference instrument(s).

The built-in tutorial mode guides users step-by-step through the measurement process. The tutorial mode includes all steps required for sample preparation, the required reagents, and quantities.

The instrument is a compact and versatile photometer designed to accurately determine chemical oxygen demand.

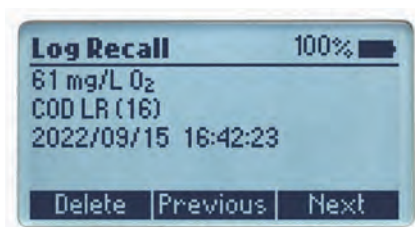
Suitable for field or bench measurements, the photometer features:

- Sophisticated optical system
- Waterproof IP67, floating case
- Backlit LCD
 - The 128 x 64 Pixel LCD allows for a simplified user interface.
- Meter validation using certified CAL Check cuvettes
- Tutorial mode guides the user step-by-step
- Includes auto-data logging features to easily record water testing results
- Battery status indicator and auto-shut off
 - The auto-off feature automatically shuts off the meter after 15 minutes of inactivity in order to conserve battery life.
- Compact size
 - Measures 142.5 mm (5.6") x 102.5 mm (4") and only 50.5 mm (2") thick.



CAL Check™ validation

Validate instrument performance at any time using CAL Check cuvettes made with NIST traceable standards.



Auto-data logging

Data autolog helps users keep track of all measurements. Data is automatically saved every time a measurement is made.

The data log can hold 200 individual measurements. When the data log is full, the meter will rewrite the oldest data point.



On-Screen guides

Step-by-step on-screen guidance.



Waterproof and floating, IP67 meter design

Method and Parameter

Chosen parameter and method used is displayed along with the reading.

Battery status indicator and auto-shut off

The auto-off feature automatically shuts off the meter after 15 minutes of inactivity in order conserve battery life.

Virtual keys

Menu available at the touch of a button



Removable vial adapter

The vial adapter can be removed to accommodate HI97106-11 CAL Check™ cuvettes for validation.

Dedicated help

A dedicated help key provides information relating to the current meter operation, and can be used at any stage in the setup or measurement process to show contextual help.

Specifications	HI97106		
Chemical Oxygen Demand LR	Range	0 to 150 mg/L (as O ₂)	
	Resolution	1 mg/L	
	Accuracy	±5 mg/L or ±4 % of reading at 25 °C, whichever is greater	
	Method	Adaptation of the US EPA 410.4 Approved Method for the COD Determination on Surface Waters and Wastewaters	
	LED	420 nm	
Chemical Oxygen Demand MR	Range	0 to 1500 mg/L (as O ₂)	
	Resolution	1 mg/L	
	Accuracy	±15 mg/L or ±4 % of reading at 25 °C, whichever is greater	
	Method	Adaptation of the US EPA 410.4 Approved Method for the COD Determination on Surface Waters and Wastewaters	
	LED	610 nm	
Chemical Oxygen Demand HR	Range	0 to 15000 mg/L (as O ₂)	
	Resolution	1 mg/L	
	Accuracy	±150 mg/L or ±2 % of reading at 25 °C, whichever is greater	
	Method	Adaptation of the US EPA 410.4 Approved Method for the COD Determination on Surface Waters and Wastewaters	
	LED	610 nm	
Chemical Oxygen Demand UHR	Range	0 to 60.0 g/L (as O ₂)	
	Resolution	0.1 g/L	
	Accuracy	±0.5 g/L ±3 % of reading at 25 °C	
	Method	Adaptation of the US EPA 410.4 Approved Method for the COD Determination on Surface Waters and Wastewaters	
	LED	610 nm	
Measurement system	Light source	LED	
	Bandpass filter	wavelength	420 nm & 610 nm
		bandwidth	8 nm
		wavelength accuracy	±1.0 nm
Light detector	silicon photocell		
Cuvette Type	round, 16 mm diameter		
Photometer Specifications	Auto logging	200 readings	
	Display	128 x 64 pixel B/W LCD with backlight	
	Auto-off	After 15 minutes of inactivity (after 30 minutes of inactivity if a Zero has been done but not a Read)	
	Battery type / Life	1.5 V AA alkaline (3 pcs.) / > 10000 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.); with batteries	
	Casing	IP67 rating, floating	
	Ordering Information	HI97106 is supplied with adapter for 16 mm vial, 1.5V AA Alkaline batteries (3 pcs.), instrument quality certificate, and quick reference guide with instructions for manual download.	
Reagents, Standards, and Accessories	HI97106-11 CAL Check™ standards for HI97106	HI93754E-25 Reagents Hg Free Medium Range for 25 tests	
	HI93754A-25 Reagents EPA Low Range for 25 tests	HI93754F-25 Reagents ISO Low Range for 25 tests	
	HI93754B-25 Reagents EPA Medium Range for 25 tests	HI93754G-25 Reagents ISO Medium Range for 25 tests	
	HI93754C-25 Reagents High Range for 25 tests	HI93754J-25 Reagents Ultra High Range for 25 tests	
	HI93754D-25 Reagents Hg Free Low Range for 25 tests		