



Free Chlorine and Ultra High Range Total Chlorine Portable Photometer – HI97771-meter only

Description

Chlorine is a common chemical used by for disinfection. High levels of chlorine, whether in liquid or produced by electrolysis of salt, is used in a variety of industries including produce washing, food processing, and the disinfection of medical equipment due to its' effectiveness as a biocide. The 2017 FDA Food Code 4-501.114 states that based on temperature the chlorine concentration of equipment wash water should be between 25 and 100 mg/L. HI97771 is designed to measure very high concentrations, 500 mg/L (ppm), of total chlorine in water. This meter also has a free chlorine range and can measure up to 5.00 mg/L (ppm).The HI97771 has an innovative optical system that offers superior performance in accuracy, repeatability, and the short amount of time it takes to perform a measurement. This compact, waterproof meter is extremely user friendly with a tutorial mode that walks the user graphically, step by step, in performing a measurement. The use of a backlit dot matrix LED allows the use of virtual keys which makes the operation of the meter very intuitive including selecting different methods, reviewing GLP data, recalling the last 50 measurements, and customizing the meter to user preferences.HI97771 is completely waterproof including the cuvette holder that is designed with ridges to protect the optical path from getting scratched by the cuvette and a gasketed battery compartment that holds three common AA batteries. The compact design fits comfortable in the hand for use in the field or on a table for benchtop use. The LCD is 71 mm (2.75?) by 37 mm (1.6?) and is backlit for easy viewing under all conditions.

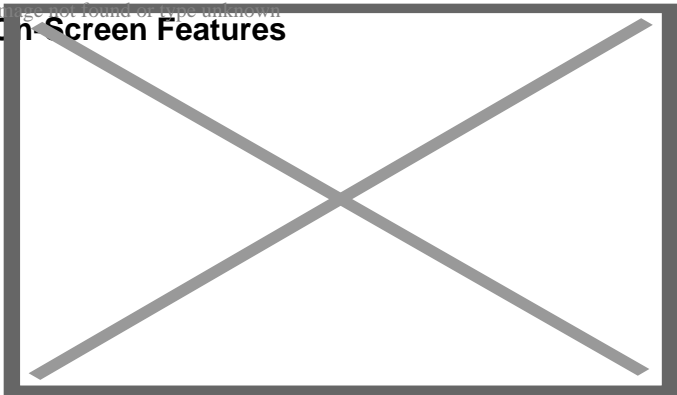
photometer optical system

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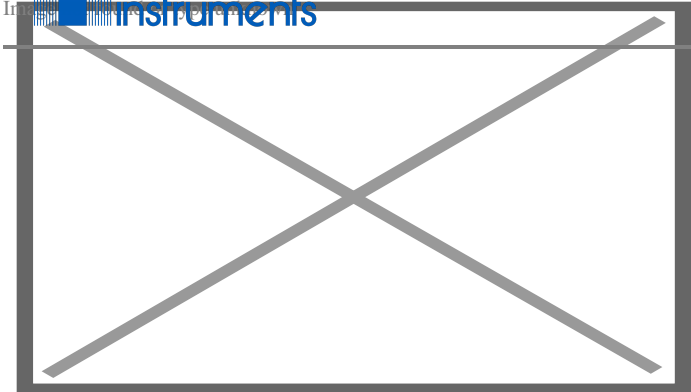
- LED that generates very little heat
- 8 nm narrowband interference filter that is accurate to +/- 1 nm and offers 25% increase in light efficiency.
- Reference detector that modulates the voltage to LED for consistent light output.?
- A concave focusing lens that reduces errors from imperfections in the cuvette

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On-Screen Features



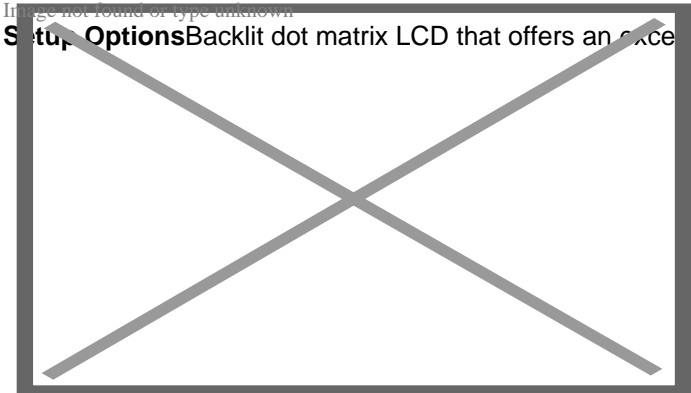
CAL CheckAdvanced features including CAL-Check to verify performance and if necessary, recalibrate.



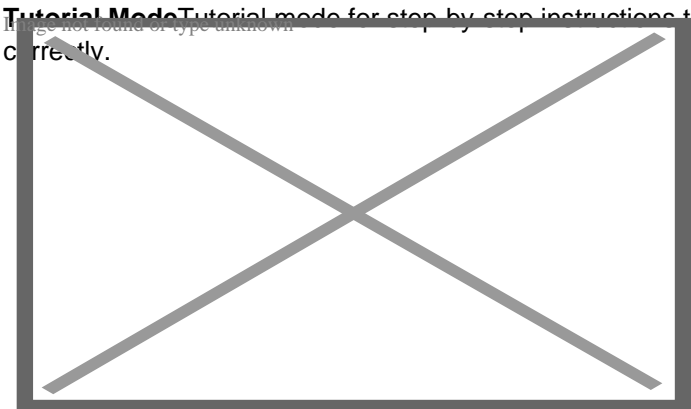
method option
Log RecallThe Last 50 readings are autmatically stored for review.

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Setup, OptionsBacklit dot matrix LCD that offers an exce tionally intuitive user interface that is easy to read and understand.



Tutorial ModeTutorial mode for step by step instructions to guide a first-time user in how to perform a measurement correctly.



Reaction TimerBuilt-in reaction timer that ensures consistency amongst multiple users.

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HI97771??FEATURES/BENEFITS:

Stable Light Source:

- The internal reference system of the HI97771 photometer compensates for any drifts due to power fluctuations or ambient temperature changes. With a stable source of light the readings are fast and stable between your blank (zero) measurement and sample measurement..

High Efficiency Light Source:

- LED light sources offer superior performance compared to tungsten lamps. 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.?

High Quality Filters:

- Improved optical filters ensure greater wavelength accuracy and allow a brighter, stronger signal to be received. The end result is higher measurement stability and less wavelength error.

Greater Light Yield:

- A focusing lens collects all of the light that exits the cuvette, eliminating errors from imperfections and scratches that may be present in the glass. The use of the convex lens reduces the need for indexing cuvettes..

CAL Check Functionality:

- Hanna's exclusive CAL Check feature allows for performance verification and calibration of the meter using NIST traceable standards. Our CAL Check standard vials are developed to simulate a specific absorbance value at each wavelength to verify the accuracy of subsequent readings.

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Multitple Measurement Methods:

- Users can select the use of powder reagents supplied in packets or the use of low cost liquid reagents supplied in a dropper bottle.

Built-in Reaction Timer:

- Waiting the proper reaction time is of key importance when performing colorimetric measurements. The countdown timer displays the time remaining until a measurement will be taken, ensuring consistent results between sample measurements and users.

Large Cuvette Size:

- The sample cell of the HI97771 fits a round, glass cuvette with a 25 mm path length. The relatively long path length of the sample cuvette allows the light to pass through more of the sample solution, ensuring accurate measurements even in low absorbance samples.

Intuitive Dot Matrix Display:

- The HI97771 is designed with a backlit, graphic LCD. With virtual keys, a battery status indicator, and error messages. Users will find the meter interface intuitive and easy to read. 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.

Auto-off Protection:

- The meter uses three common AA batteries that allow for about 800 measurements to be taken. The auto-off feature automatically shuts off the meter after 15 minutes of inactivity in order conserve battery life.

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Especificaciones

Especificación	Detalle
Código de producto	HI97771

Especificación	Detalle
Intervalo de cloro libre UHR	0.00 a 5.00 mg/L (ppm)
Resolución de cloro libre UHR	0.01 mg/L
Exactitud de cloro libre UHR	±0.03 mg/L ±3% de la lectura
Método de cloro libre UHR	Modificación del método EPA DPD 330.5
Intervalo de cloro total ultra HR	0 a 500 mg/L
Resolución de cloro total ultra HR	1 mg/L
Exactitud de cloro total ultra HR	±3 mg/L ±3% de la lectura a 25 °C
Método de cloro total ultra HR	Modificación de los Métodos Estándares para el Análisis de Agua y Agua residual, 20ª. Edición, 4500-Cl
Fuente de luz	Diodo emisor de luz
Detector de luz	Fotocelda de silicio
Ancho de banda del filtro	8 nm
Exactitud de la longitud de onda del filtro	±1.0 nm
Registro	50 lecturas (registro automático)
Alimentación eléctrica	Baterías alcalinas de 1.5 V AA (3 pzas.)
Duración de la batería	> 800 mediciones (sin iluminación de la pantalla)
Apagado automático	Después de 15 minutos de inactividad (30 minutos antes de una medición leída)
Condiciones ambientales	0 a 50 °C (32 a 122 °F); 0 a 100% HR
Dimensiones	142.5 x 102.5 x 50.5 mm (5.6 x 4.0 x 2.0")
Peso	380 g (13.4 oz.)