

## Dear Customer,










Thank you for choosing Hanna Instruments.

The Marine Master waterproof multiparameter **Bluetooth®** photometer is a scientific-grade instrument designed to help maintain better, more stable reef tanks by providing consistent and accurate readings. Featuring an **advanced optical system** that utilizes a reference detector, LED light source, and improved optical filters, this photometer measures nine of the most critical reef aquarium parameters.

For added versatility, this photometer can be connected to the **Hanna Lab App** using Bluetooth wireless technology and a compatible smart device.

The application is available from both the App Store® and on Google Play.

## Parameters

-  Marine pH
-  Marine Alkalinity
-  Marine Ammonia
-  Marine Calcium
-  Marine Magnesium
-  Marine Nitrate Low Range
-  Marine Nitrate High Range
-  Marine Nitrite Ultra Low Range
-  Marine Phosphate Ultra Low Range

## Carrying Case Contents

- HI97115C
- Sample cuvette (2 pcs.)
- Sample cuvette cap (2 pcs.)
- Marine pH reagent, 30 mL dropper (1 pc.)
- Marine Alkalinity reagent, 30 mL bottle (1 pc.)
- Marine Ammonia starter kit  
Reagent A and C, 30 mL dropper (2 pcs., 1 of each)  
Reagent B (reagent for 25 tests)
- Marine Calcium starter kit  
Reagent A, 30 mL bottle (1 pc.)  
Reagent B (reagent for 25 tests)
- Marine Magnesium starter kit  
Reagent A, 120 mL bottle (1 pc.)  
Magnesium Indicator Reagent (for 25 tests)
- Marine Nitrate High Range reagent (for 25 tests)
- Marine Nitrite Ultra Low Range reagent (for 25 tests)
- Marine Phosphate Ultra Low Range reagent (for 25 tests)
- 1 mL graduated syringes with tips (2 pcs.)
- 5 mL syringe with tip and black printing (1 pc.)
- 5 mL syringe with tip and blue printing (1 pc.)
- 3 mL Pasteur pipette (2 pcs.)
- Minipipette with tip (1 pc.)
- Scissors (1 pc.)
- Cuvette wiping cloth (1 pc.)
- 1.5V AA Alkaline batteries (3 pcs.)
- Instrument quality certificate
- Quick reference guide with QR code for user manual download



Hanna® is committed to developing and deploying digital solutions with a positive impact on the environment and climate.



Please scan the QR code or follow the link to download the user manual.  
<https://manuals.hannainst.com/hi97115>

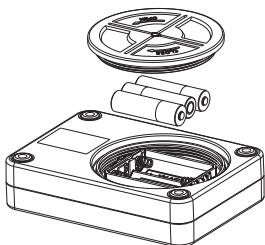


The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

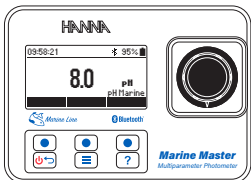
App Store is a trademark of Apple, Inc. Google Play and the Google Play logo are trademarks of Google LLC.

### Getting Started

- Install the batteries prior to first use. Rotate the back cover counterclockwise, insert supplied batteries, replace the cover, and turn clockwise to close.





- Press the ON/OFF power button  to get started.




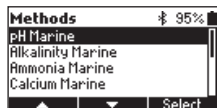
### How to

#### Menu and Functionality

- Press the Menu key  to access configurable **Setup** parameters, supported **methods**, logged data, and CAL Check™ validation.
- Use the ▲▼ keys to navigate between options.
- Press the Functional keys  to perform the option displayed above them on the screen.

#### Contextual Help Mode

- Press the Help  key to enter an interactive contextual Help mode and access additional setup and measurement context-sensitive information.



### Focus on Features

#### CAL Check Validation of the Bandpass Filter

Step-by-step, on-screen guidance of instrument validation using Hanna® CAL Check cuvettes that are certified against NIST-traceable reference instrument(s).

#### On-Screen Tutorials

The built-in Tutorial mode guides users step-by-step through measurement procedures for all supported parameters.

#### Bluetooth Connectivity

The integrated Bluetooth module allows the photometer to connect without bonding (default, ON option) or pair (for auto recognition) with a compatible smart device through the Hanna Lab App.

#### Tank Selection and Multiple Reading Locations Management

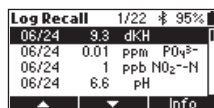
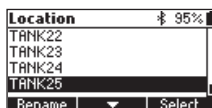
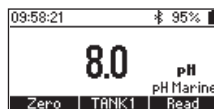
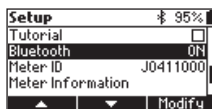
Users can edit up to **100** different tanks, correlate reading location to any location from the list so that logged data is linked to its reading location.

#### Large Cuvette Size

The 25 mm path length cuvette allows light to pass through more of the sample ensuring accurate measurements even in low-absorbance samples.

#### Positive Locking System

Cuvettes are placed into the holder in the same position every time by ensuring that the notch on the cap is positioned securely in the cell's groove.



All Hanna instruments conform to the CE European Directives and our production facilities are ISO 9001 certified. Instruments are warrantied for two years against defects in workmanship and materials when used for their intended purpose and maintained according to instructions.

For technical information e-mail us at [tech@hannainst.com](mailto:tech@hannainst.com) or view our contact list at [www.hannainst.com](http://www.hannainst.com).



Please retain for future use.

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