





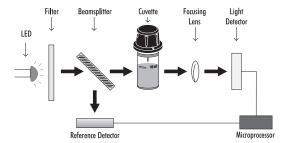
HI97115

Marine Master Waterproof Wireless Multiparameter Photometer

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

The HI97115 is a compact and versatile Marine multiparameter photometer designed to accurately determine pH, Alkalinity, Ammonia, Calcium, Magnesium, Nitrate, Nitrite, and Phosphate levels in aquariums and marine biology applications. The HI97115 is suitable for field and bench measurements.

The HI97115 can be used as a stand-alone photometer or can be connected to the Hanna Lab App with a compatible smart device via the integrated Bluetooth module. When connected, Hanna Lab App functions include measurement with the ability to add notes, data logging with extended storage capacity, data sharing, and the ability to create and save method groups.



Precise and 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.



Waterproof and floating IP67 meter design



Option to select measurement location for better tracking consistency



CAL Check™ validation and calibration

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. GLP data displays the last calibration date.



Backlit LCD and on-screen help to guide users



Built-in reaction timer that ensures consistency between tests.



On-screen tutorial mode with animations

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

Tutorial mode can be easily enabled or disabled from the setup menu.



Includes auto-data logging features to easily record water testing results

The instrument features a data autolog function to help users keep track of all measurements. Every time a measurement is made the data is automatically saved.

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



Positive locking system

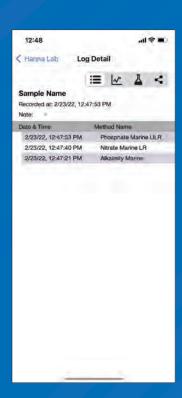
The Hanna positive-locking system ensures cuvettes are placed into the holder in the same position every time.



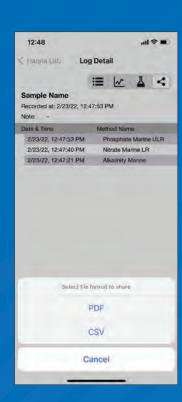


Hanna Lab App

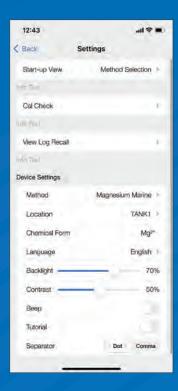
When used with the HI97115, the Hanna Lab App adds an enhanced user experience to a compatible smart device. Features include: measurement with the ability add notes, data logging with extended storage capacity, data sharing, and the ability to create and save method groups..



View logged detail with date and time



Share logged data in various formats



Control meter settings within the Hanna Lab App

Samples can be named along with annotations

Specifications

Marine pH	Range	6.3 to 8.6 pH	
	Resolution	0.1 pH	
	Accuracy	±0.2 pH of reading at 25 °C	
	Method	Colorimetric Adaptation of the Phenol Rec Method	
	LED	525 nm	
Marine Alkalinity	Range	0.0 to 20.0 dKH	
	Resolution	0.1 dKH	
	Accuracy	±0.3 dKH ±5 % of reading at 25 °C	
	Method	Colorimetric Method	
	LED	610 nm	
Marine Ammonia	Range	0.00 to 2.50 ppm (as NH_3)	
	Resolution	0.01 ppm	
	Accuracy	± 0.05 ppm $\pm 5\%$ of reading at 25 °C	
	Method	Adaptation of the Salicylate Method	
	LED	610 nm	
Marine Calcium	Range	200 to 600 ppm	
	Resolution	1 ppm	
	Accuracy	±6% of reading at 25 °C	
	Method	Adaptation of the Zincon Method	
	LED	610 nm	
Marine	Range	1000 to 1800 ppm (as Mg ²⁺)	
Magnesium	Resolution	5 ppm	
	Accuracy	±5% of reading at 25 °C	
	Method	Adaptation of the Colorimetric EDTA Method using calmagite indicator	
	LED	610 nm	
Marine Nitrate	Range	0.00 to 5.00 ppm (as NO ₃)	
LR	Resolution	0.01 ppm	
	Accuracy	±0.25 ppm ±2% of reading at 25 °C	
	Method	Zinc Reduction Method	
	LED	525 nm	
Marine Nitrate	Range	0.0 to 75.0 ppm (as NO ₃)	
HR	Resolution	0.1 ppm	
	Accuracy	±2.0 ppm ±5% of reading at 25 °C	
	Method	Zinc Reduction Method	
-	LED	525 nm	
Marine Nitrite ULR	Range	0 to 200 ppb (as NO _z -N)	
	Resolution	1 ppb	
	Accuracy	±10 ppb ±4% of reading at 25 °C	
	Method	Adaptation of the EPA Diazotization Method 354.1	
	LED	525 nm	

Marine Phosphate ULR	Range	0.00 to 0.90 ppm		
	Resolution	0.01 ppm		
	Accuracy	±0.02 ppm ±5% of reading at 25 °C		
	Method	Adaptation of Standard Methods for the Examination of Water and Wastewater, 20th Edition, Ascorbic Acid Method		
	LED	610 nm		
Measurement system	Light source	LED		
	Bandpass filter	wavelength bandwidth wavelength accuracy	525 nm & 610 nm 8 nm ±1.0 nm	
	Light detector	silicon photocell		
	Cuvette Type	round 24.6 mm diameter (22 mm inside diameter)		
Additional Specifications	Auto logging	200 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), non-serviceable	; 0 to 100% RH,	
	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 ba	tteries	
	Casing	IP67 rating, floating		
Ordering Information	HI97115 is supplied with sample cuvette (2 pcs.), sample cuvette cap (2 pcs.), 1.5V AA alkaline batteries (3 pcs.), instrument quality certificate, and quick reference guide with QR code for instruction manual download. CAL Check standards and testing reagents sold separately			
	HI97115C* is delivered in a rugged carrying case and is supplied with 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.), reagent B, 30 mL bottle (1 pc.), Marine Nitrate High Range reagent (reagent for 25 tests), Marine Phitrite Ultra Low Range reagent (reagent for 25 tests), Marine Phosphate Ultra Low Range reagent (reagent for 25 tests), 1 mL graduated syringe with tip (3 pcs.), minipipette with tip (1 pc.), 3 mL Pasteur pipette (2 pcs.), 5 mL syringe (black printing) and tip (1 pc.), 5 mL syringe (blue printing) and tip (1 pc.), 1.5 V AA Alkaline batteries (3 pcs.), coth for wiping cuvettes, scissors, instrument quality certificate, and quick reference guide with QR code for instruction manual download.			

 ${\sf CAL\,Check\,standards\,sold\,separately.\,Nitrate\,LR\,testing\,reagent\,not\,included.}$

*HI97115UC is ordering code for USA

Reagents and Standards	HI97105-11 CAL Check™ standards for HI97115 - cuvette kit			
	HI758-26 marine calcium reagent - 25 tests			
	HI758U-26 marine calcium reagent - 25 tests (ordering code in the USA)			
	HI764-25 marine nitrite ULR reagent - 25 tests			
	HI772-26 marine alkalinity reagent - 25 tests			
	HI774-25 marine phosphate ULR reagent - 25 tests			
	HI780-25 marine pH Reagent - approx. 100 tests			
	HI740273 marine nitrate LR measurement kit (1 pc.)			
	HI781-25 marine nitrate LR Reagent - 25 tests			
	HI782-25 marine nitrate HR reagent - 25 tests			
	HI783-25 marine magnesium reagent - 25 tests			
	HI784-25 marine ammonia reagent - 25 tests			
Accessories	HI70436M Deionized water (230 mL)			
	HI7101419 Blue carrying case for Marine Master photometer			
	HI731318 Cloth for wiping cuvettes (4 pcs.)			
	HI731360 Glass cuvette with cap (2 pcs.)			
	HI731339P 0.1 mL minipipette			
	HI731349P Tip for 0.1 mL minipipette (10 pcs.)			
	HI740142P 1 mL graduated syringe (10 pcs.)			
	HI740143 1 mL graduated syringe (6 pcs.)			
	HI740144P Plastic tip for 5 mL syringe (10 pcs.)			
	HI740157P Plastic refilling pipette (20 pcs.)			
	HI740226 5 mL graduated syringe with black printing (1 pc.)			
	HI740237 5 mL graduated syringe with blue printing (1 pc.)			
	HI740228 Filter disc (25 pcs.)			
	HI740270 10 mL syringe with Luer Lock (1 pc.)			
	HI740271 Filter holder with Luer Lock (1 pc.)			
	HI740272 16 gauge blunt needle (6 pcs.)			
	HI740273 Marine Nitrate LR measurement kit (1 pc.)			
	HI93703-50 Cuvette cleaning solution (230 mL)			

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