

HI 764

## Nitrite Ultra Low Range Handheld Colorimeter

Nitrification is the biological oxidation of ammonia (ammonium ion) into nitrite followed by the oxidation of the nitrites to nitrates. The first step of this 2 step process is carried out in an aquarium by nitrifying bacteria. During this quick process, the ammonium levels drop while the nitrite levels increase. Since nitrite is just as harmful as ammonia, nitrite levels should be maintained at immeasurable levels. A mature biological filter should be able to keep nitrite levels low.

Also, if tap water is to be used in an aquarium, it is recommended that it be tested for phosphate, as well as silicate, ammonia, nitrate, nitrite, pH, and alkalinity.

The HANNA HI 764 Checker®HC bridges the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate while professional instrumentation can cost hundreds of dollars and can be time consuming to calibrate and maintain. The HANNA HI 764 Checker®HC is accurate *and* affordable.

The HI 764 Checker®HC portable handheld colorimeter features a resolution of 1 ppb and uses an adaptation of EPA Diazotization method 354.1.

The contoured style of this Checker®HC fits in your palm and pocket perfectly and the large LCD is easy to read. The auto shut-off feature assures the battery life will not be drained if you forget to turn it off.

The HI 764 Checker®HC is extremely simple to use. First, zero the instrument with your water sample. Next, add the reagent. Last, place the vial into the HI 764 Checker®HC, press the button and read the results. It's that easy.

### ORDERING INFORMATION

HI 764 Checker®HC is supplied with sample cuvettes with caps (2), powder reagents for phosphorus (6), battery and instructions.

### REAGENTS AND STANDARDS

HI 764-25 Reagents for 25 tests (nitrite)  
 HI 764-11 Calibration checking set  
 (0 and 100 ppb nitrite)

### ACCESSORIES

HI 731318 Cuvette cleaning cloth (4)  
 HI 731321 Glass cuvettes (4)  
 HI 731225 Caps for cuvettes (4)  
 HI 93703-50 Cuvette cleaning solution, 230 mL

Checker<sup>®</sup>HC  
 handheld colorimeter



### Easier to use and more accurate than chemical test kits

Adaptation of EPA Diazotization method  
 $\pm 10$  ppb  $\pm 4\%$  of reading accuracy  
 1 ppb resolution (200 points)  
 Large, easy to read digits  
 Auto shut off

### Dedicated to a single parameter

Designed to work with HANNA's powder reagents  
 Uses 10 mL glass cuvettes

### Small size, big convenience

Weighing a mere 64 g (2.25 oz.), the Checker®HC easily fits into the palm of your hand or pocket  
 Use for quick and accurate on the spot analysis  
 Single button operation: zero and measure  
 Operated by a single AAA battery

### Ideal for:

Aquaculture

SPECIFICATIONS	HI 764 (Nitrite ULR)
Range	0 to 200 ppb
Resolution	1 ppb
Accuracy @ 25°C/77°F	$\pm 10$ ppb $\pm 4\%$ of reading
Light Source	LED @ 525 nm
Light Detector	silicon photocell
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Battery Type	(1) 1.5V AAA
Auto-off	after two minutes of non-use
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")
Weight	64 g (2.25 oz.)
Method	adaptation of the EPA Diazotization method 354.1