



HEADHUNTERTM

UNDERWATERTM

Owner Instruction Manual

 **DETECTORPRO**^{LLC} 

innovative treasure hunting concepts

INTRODUCTION



Thank you for buying our **HEADHUNTER UNDERWATER** metal detector. You have purchased one of the most compact underwater metal detectors in the world. Not only does this metal detector contain today's most innovative electronics, it is the first water detector that has all the electronics built into the headphones. By eliminating a control housing, weight of the detector is significantly reduced and so is your arm fatigue. When you travel, the **UNDERWATER** also takes up very little room. All of this is possible because of our innovative micro circuitry and packaging design. The **UNDERWATER has (included) an integral Lithium Ion Rechargeable battery system and charger.**

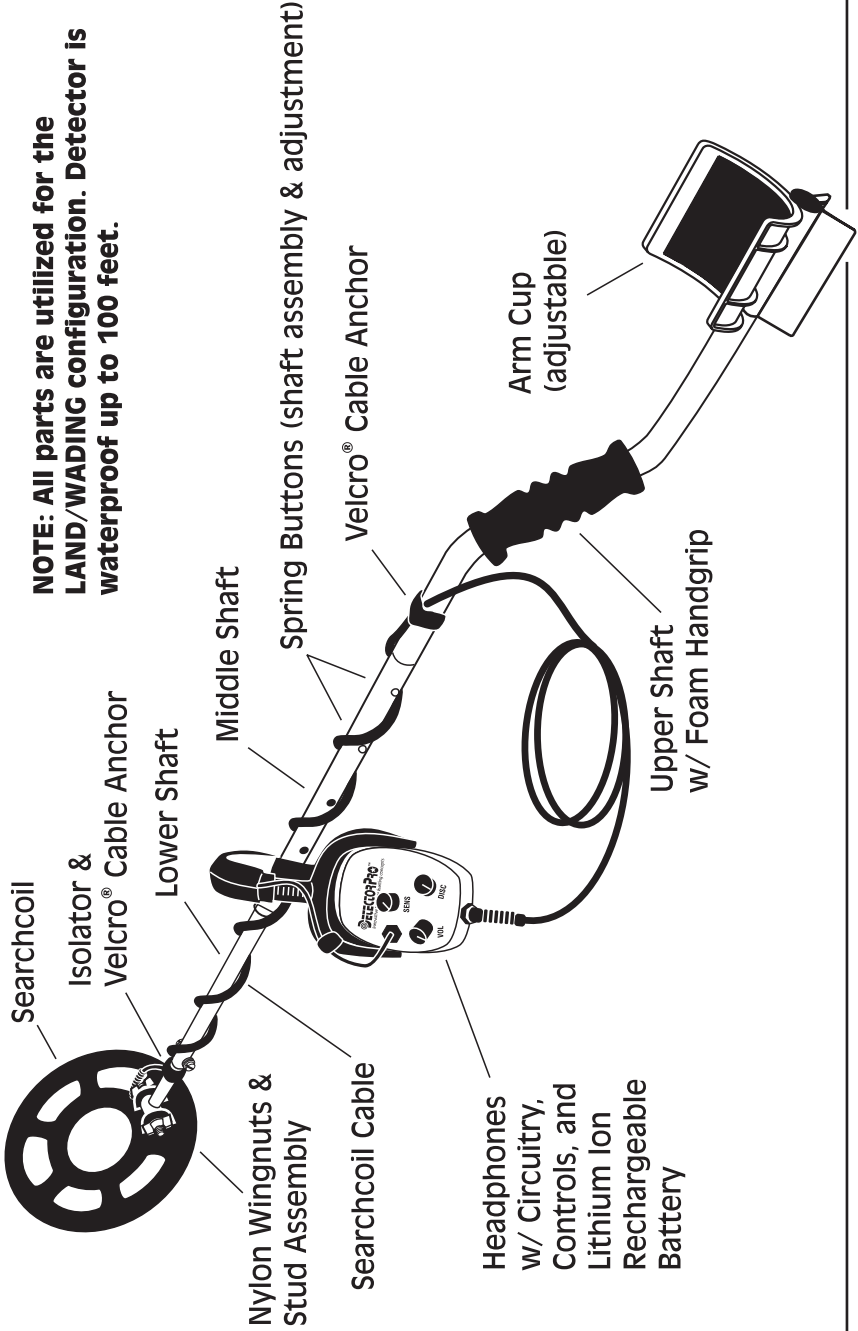
The **UNDERWATER** was engineered to perform best in both salt water and fresh water, but it is also a very good land hunter as well. We feel it is a true universal application metal detector.

UNDERWATER opens up a whole new world of excitement. Thousands of valuables are continuously lost each year and you can now start finding them. Learn the operation of your new metal detector well, do site research, obey the law, and respect the rights of others. If you do all of the above, you will have an enjoyable, successful hobby that will give you pleasure and relaxation for years to come.

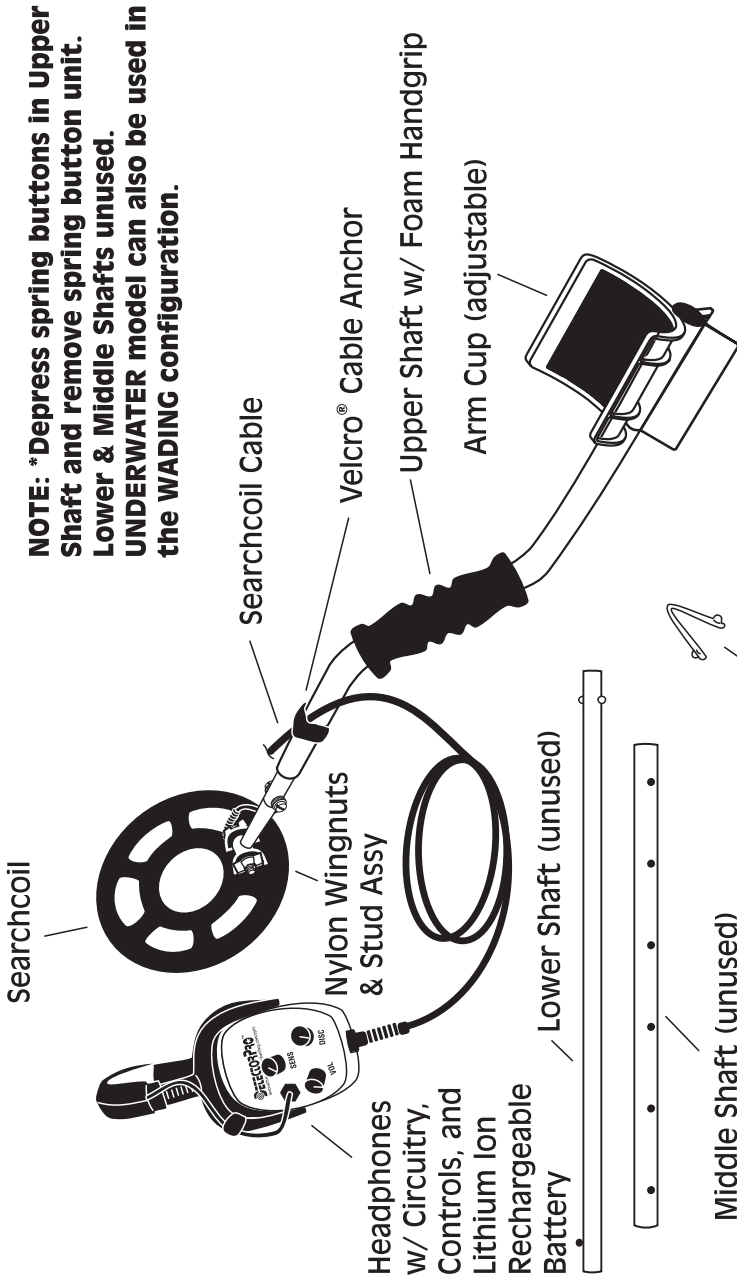
Happy hunting and good luck,
Gary Storm

ASSEMBLY – LAND/WADING

NOTE: All parts are utilized for the LAND/WADING configuration. Detector is waterproof up to 100 feet.



ASSEMBLY – DIVING



NOTE: *Depress spring buttons in Upper Shaft and remove spring button unit. Lower & Middle Shafts unused. UNDERWATER model can also be used in the WADING configuration.

***Spring Button Unit (removed from upper shaft)**

TERMINOLOGY

If you are new to metal detecting, we have provided definitions below to help you better understand terminology used in this manual. The following was adapted with permission from: **DETECTORIST**, A How-To Guide to Better Metal Detecting, by Robert H. Sickler.

AIR TEST - A test to determine the maximum sensitivity a metal detector is capable of under ideal conditions. Various sized metal samples are held beyond the searchcoil bottom at varying distances to determine the limits of audio or visual response. Air tests are not accurate indicators of ground penetration ability. (see **BENCH TEST**)

ALKALINE - A grade of battery composition which sustains higher current drain and possesses a greater shelf life than basic carbon-zinc types.

LITHIUM ION - A new high-capacity rechargeable battery with no short use and recharge memory.

BENCH TEST - Another form of air test used to define which discriminate settings accept or reject various target samples. Detector is placed upon a stationary, nonmetallic rest and samples are manually passed across the bottom of the searchcoil.

DISCRIMINATION - Circuitry and the mode of operation in which audio or visual responses from undesired metal objects are intentionally eliminated.

GROUND BALANCE - A condition or mode of operation in which the detector is adjusted to optimally reduce the interference that ground mineralization has on metal targets.

MOTION DISCRIMINATOR - A detector requiring constant searchcoil motion to reduce the effect ground mineral interference has on its discriminate function.

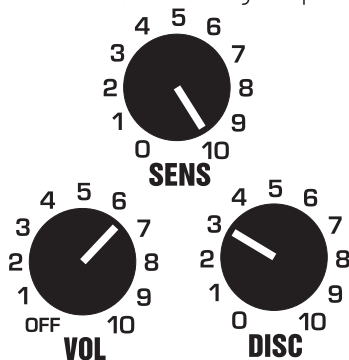
PINPOINTING - The act of aligning the center of target response width to the designated searchcoil center for accurate location and careful recovery.

SENSITIVITY - The measure of a metal detector's capacity to sense changes in conductivity throughout the pattern of detection set forth by the searchcoil configuration. (see **AIR TEST**)

TARGET - Any buried or hidden object which a metal detector responds to.

VOLUME CONTROL - A metal detector control which regulates the loudness of target response.

CONTROLS



HEADHUNTER UNDERWATER model has three controls for the micro-encapsulated circuitry located in one sealed earcup of the headphones. A Rechargeable battery is found in the other earcup and is not user accessible.

Your detector's controls are **Discrimination** (Disc), **On/Off Volume** (Vol), and **Sensitivity** (Sens).

Your controls will be very tight. This is intentional to insure waterproofing. If you are new at metal detecting you may want to learn the discrimination points on the Disc control. Turn your detector on, set your Sensitivity about "8 to 9" and Volume up all the way clockwise. Use some of the items found on the chart on page 7. Start your Disc at 0. Run the target you are testing back and forth under the center of the searchcoil while at the same time turning your Disc control slowly clockwise. If your signal starts to breakup, your detector is starting to discriminate against the target. Some targets like small nails will completely not respond. Remember Disc is for small junk items. Note higher number settings will discriminate out good targets as well. Most water hunters run low Disc ("3 to 4") in the water and dig everything else.

Disc is more important for land hunting. The Sensitivity control can be adjusted backwards from maximum ("10") to lessen the effects of ground mineralization and small surface trash. Obviously the Volume control should be set to the user's preference.

DISCRIMINATION POINTS

Bench test your detector in an area free of metal and electrical interference. For each item, return the DISC control to "0" and rotate the knob while passing each item below the searchcoil. Stop the knob when the item no longer signals or the sound character becomes broken. This number will be a discrimination reference point. It will not be possible for you to test all items on the list, but this will give you an idea what different levels of discrimination will do to your target. The items below are in order of conductivity. Please note the good items mixed with the trash items.

- _____ COMMON NAIL
- _____ FOIL
- _____ THIN RINGS (14K)
- _____ "TAB" OF PULLTAB
- _____ THIN RINGS (10K)
- _____ MEDIUM RINGS (14K)
- _____ NICKEL COIN (5 CENTS)
- _____ PULLTAB (WHOLE)
- _____ \$2.5 GOLD COIN
- _____ "RING" FROM PULLTAB
- _____ THICK WEDDING BAND (14K)
- _____ THIN RING (STERLING SILVER)
- _____ 3-CENT COIN (SILVER)
- _____ SQUARE TAB
- _____ \$5 GOLD COIN
- _____ SMALL CLASS RING (10K)
- _____ INDIAN HEAD CENT
- _____ SCREWCAP (ALUMINUM)
- _____ HALF-DIME (SILVER)
- _____ ZINC CENT (COPPER PLATED)
- _____ LARGE CLASS RING 10K
- _____ 2-CENT COIN
- _____ ½ REALE COIN (SILVER)
- _____ BARBER DIME
- _____ "WHEAT" CENT
- _____ HALF-CENT (COPPER)
- _____ \$20 GOLD COIN
- _____ CLAD DIME
- _____ 1 REALE COIN (SILVER)
- _____ MERCURY/ROOSEVELT DIME (SILVER)
- _____ LARGE CENT (COPPER)
- _____ CLAD QUARTER
- _____ QUARTER (SILVER)
- _____ HALF-DOLLAR (SILVER)
- _____ DOLLAR COIN (SILVER)

OPERATION

Operating Instructions:

The **HEADHUNTER UNDERWATER** metal detector is one of the simplest metal detectors to use. It employs fully automated, ground balanced motion-discrimination circuitry. The searchcoil must be in slight motion to maintain audible target signal. The following is the basic startup procedure for Diving & Wading.

1. Turn **UNDERWATER** power ON. Set Volume to level where you can hear target signals comfortably. This can be accomplished by passing a coin back and forth under the searchcoil. Regulator bubble noise can reduce your hearing range and volume level should be increased accordingly.
2. Turn the Sensitivity control fully clockwise to the maximum level. If you hear chatter or static, reduce level until no interference is audible. In salt water, it may be necessary to reduce sensitivity. Sensitivity, Discrimination, and Volume are continuous turn controls. The Sensitivity and Volume adjustments should be made according to how your detector reacts in salt and fresh water.
3. Next adjustment will be setting the Discrimination level. After learning where unwanted items will be discriminated out, you can adjust this before entering the water.
4. Swing your coil back and forth slowly over the water's bottom. Keep the coil as close to the bottom as possible. Solid sounding audio signals should always be investigated. Pinpointing a target is accomplished by raising the searchcoil off the target and slowing the sweep until the audio signal is centered under the coil in opposing sweep directions.
5. Retrieving targets submerged in water is more difficult than on land or wading. Some hunters just fan the water to move the sand while others will carry a special digging tool. Always carry a small "goody" bag to deposit and transport your finds. Please remove and dispose of all trash you find. No one likes digging it up more than once!
6. With experience you will become good at retrieving finds no matter how bad the visibility.

(continued on page 9)

OPERATION

Operating Instructions:

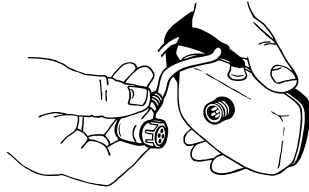
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BATTERY & MAINTENANCE

Battery:

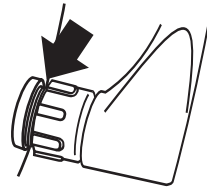
Your **HEADHUNTER UNDERWATER** metal detector includes a rechargeable 1300 mAh Lithium Ion battery rated for 1000+ charge cycles. When fully charged, your battery will yield 40+ hours of operating time. Lithium Ion batteries do not have a memory, therefore you can charge after every use and not worry about shorting the battery. There is a slow discharge rate if the detector is dormant. We recommend charging the **UNDERWATER** before each outing to be assured it is fully charged.



Battery Charging:

To recharge the **UNDERWATER** battery, unscrew (counter-clockwise) the crossover cable connector located on one earcup and pull straight out to remove. The connector end of the included recharger has a key to align its connector with the earcup receptacle. Once carefully aligned (do not force), push the connector inward. When threading the connector back together after charging, just screw down until snug. There will be a couple of threads exposed, this is normal.

Do not overtighten. Plug the transformer end of the charger into a 110 VAC electrical outlet and charge for 6 hours if totally discharged. A red light on the charger indicates it is charging, a green light indicates the charging cycle is completed. Remove the charger and reconnect the headphone wire to the earcup connector.



The **UNDERWATER** earcups are sealed to insure the integrity of the water depth rating. Opening or tampering with the earcup assembly will void your warranty.

Replacement of the rechargeable Lithium Ion battery must be done by the manufacturer to maintain a valid warranty duration.

Maintenance:

1. Always thoroughly rinse your **HEADHUNTER UNDERWATER** in fresh water after using it — especially after use in salt water.
2. Store your detector in a cool place.
3. Never store it in a manner that it will be subject to vibration, shock or intense heat.

WARRANTY

Record Your:

Date of Purchase:

Dealer Name/Address:

HEADHUNTER Model: **UNDERWATER**

Serial Number:

DetectorPro warrants to the original consumer purchaser that your **DetectorPro UNDERWATER** metal detector will be free from defects in materials and workmanship under normal use for two years (24 months) from the original date of purchase. If your **DetectorPro** detector fails due to defects in material or workmanship, **DetectorPro** will repair or replace at its option all necessary parts without charges for parts or labor.

This warranty gives you specific legal rights, and you may have other legal rights that vary from state to state. The warranty is non-transferable. Your warranty registration card must be sent in 10 days from date of purchase to validate your warranty.

The warranty excludes cable breakage due to improper flexing, wear on searchcoil housing, headphone earcup cushions, headband cushions, armrest cushions, and nylon armrest strap. Also excluded are metal detectors that have been abused, altered, or repaired by an unauthorized party. Opening headphones cups and tampering will void warranty.



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1447, Route 44

Pleasant Valley, NY 12569

Phone: 845-635-3488

Fax: 845-635-1838

Email: info@detectorpro.com

Web Page: www.detectorpro.com

Tech Support: techsupport@detectorpro.com

SPECIFICATIONS



HEADHUNTER

UNDERWATER

Operating Search Frequency: 2.4 Khz¹

Searchcoil: 8" Concentric, Co-Planar, RF Shielded²

Audio Frequency: 400Hz

Headphone Transducer: Piezo Electric

Search Mode: Silent search, Slow Motion Discrimination

Operating Environments: Salt water, Fresh water, Land

Submersible: Waterproof to 100 feet

Length: Diving Configuration: 27 to 53"

Wading Configuration: 43 to 53"

Weight w/Integral Battery: 3.5 Pounds

Battery: Lithium Ion Rechargeable

Battery Life: up to 40+ hours³

Warranty: 2 years

NOTES:

1. Quartz Crystal Controlled
2. Insulated against static interference
3. Based on full 6 hr. charge
4. Specifications subject to change without notice



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