



**HEADHUNTER**

P U L S E



# Owner Instruction Manual

**DETECTORPRO™**

*innovative treasure hunting concepts*

# INTRODUCTION



Thank you for buying our **HEADHUNTER** 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 **HEADHUNTER** also takes up very little room. All of this is possible because of our innovative micro circuitry and packaging design. The **HEADHUNTER** was engineered to perform best in salt water.

**HEADHUNTER** 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.

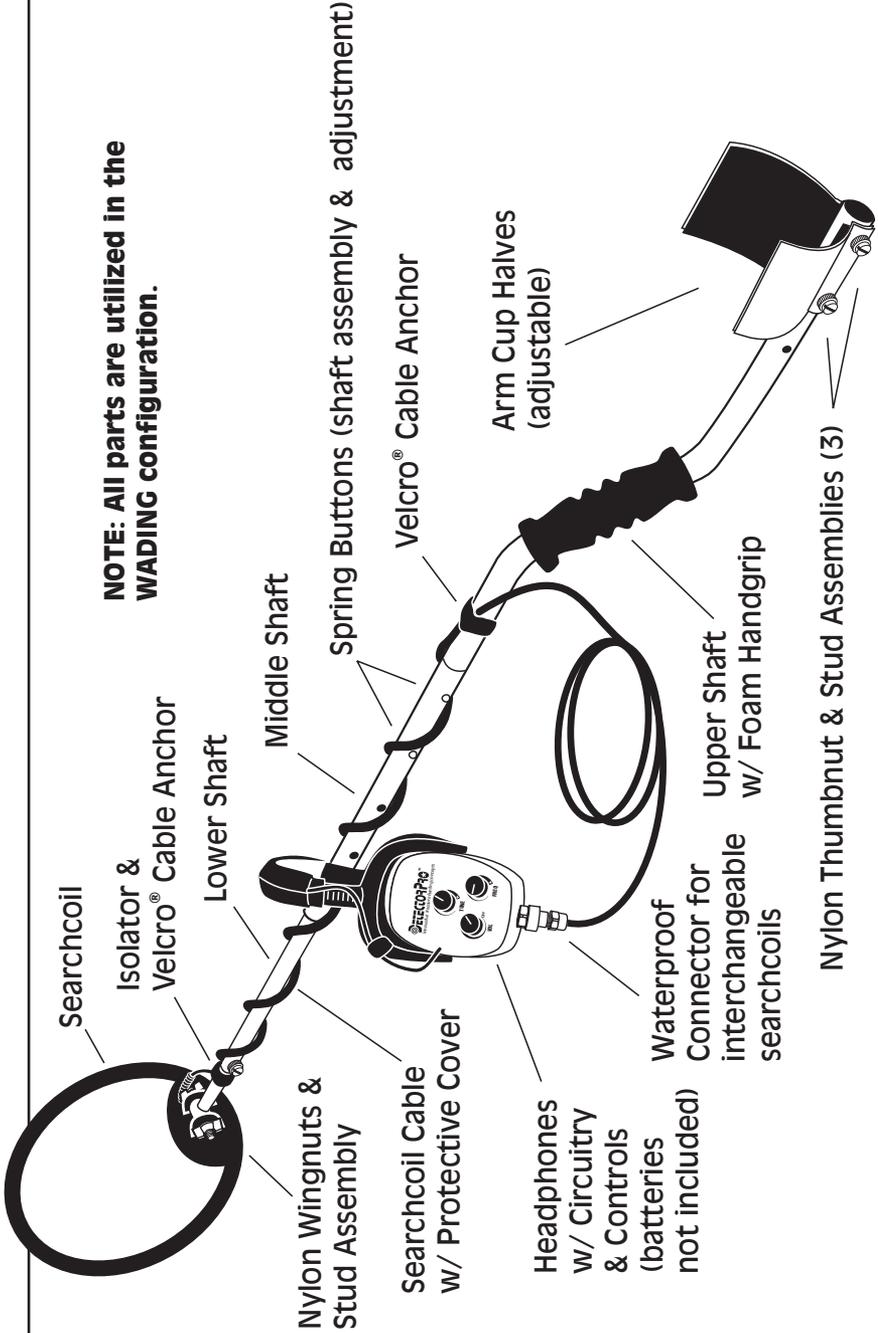
Happy hunting and good luck,

**Gary Storm**

President - DetectorPro

# ASSEMBLY – WADING

**NOTE: All parts are utilized in the WADING configuration.**



## 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 reprinted 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.

**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.

**CARBON-ZINC** - The standard or basic grade of drycell battery.

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

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

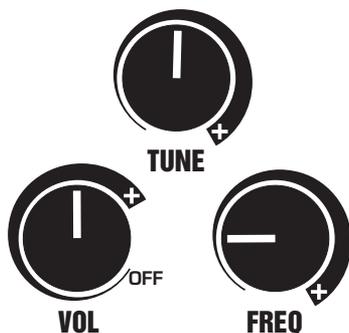
**PULSE INDUCTION** - Otherwise referred to as PI. This type of detector ignores both nonconductive and conductive minerals simultaneously by pulsing the receiver amplifier off before the response from wetted salts and iron oxides can reach the searchcoil winding. PI detectors are capable of extreme depth on both ferrous and non ferrous targets.

**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 PULSE** models have three controls for the operation of the special designed, highly sensitive, Pulse Induction circuitry. This circuitry is located in one of the sealed earcups of the headphones. Batteries are located in the other earcup, and are user accessible.

**On/Off - Volume Control (VOL):** This control turns the power on and off and controls the level of audio the detector reports to the user. This adjustment is set to user preferences.

**Tuner Control (TUNE):** Sets the Threshold background audio level.

**Frequency Control (FREQ):** Sets the sensitivity and response the unit will have to detected metals with variable amplitude audio (pitch).

The control earcup should be worn on the side of the head opposite the arm used to sweep the search coil rod. This will allow the free hand to comfortably make adjustments as needed.

# OPERATION

## Operation Instructions:

The **HEADHUNTER PULSE** metal detector is a very easy detector to use. It's a turn on and go detector. It employs a fully automated circuit retuning so that the threshold level remains steady in all ground conditions. The search coil must be in motion to maintain an audible target signal. The following is the basic startup procedure.

- 1)** Set **TUNE** control approximately to the halfway position.
- 2)** Set **FREQ** (Frequency) to approximately the 4 o'clock position.
- 3)** Turn **HEADHUNTER** power **ON**. You should hear audio tone. Set volume for comfortable level.
- 4)** Re-adjust **TUNE** control so that you just hear the threshold tone. Begin searching by sweeping the coil back and forth as close to the bottom as possible. Keep coil flat to the bottom with no rise at the end of your sweep. Pay careful attention to the rise of the threshold sound. A target underneath the coil will increase the threshold audio. On very deep or low conductive targets the threshold audio change could be very slight.
- 5)** The settings explained above are just suggestions for a fast start up. Maximum sensitivity is obtained by setting the **FREQ** control for best response on a given target and adjusting the threshold control so that the audio background level is just audible.

A US nickel is a good standard to use for setting the maximum sensitivity toward jewelry.

## **FREQ** (Frequency) Control

This is a very unique control that is able to re-tune the sensitivity of the **HEADHUNTER PULSE (PI)** detector to be responsive to selected metals with out losing its depth toward the selected metal. Unlike other PI detectors, turning the frequency control back from the higher frequency position will not result in a loss of depth for the detector.

In its more clockwise positions, the detector will be tuned most sensitive toward low conductive metals such as small

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## OPERATION

gold jewelry. As one rotates the control, the detector re-tunes itself toward different metals — gold jewelry toward the higher frequency settings; iron toward the lower frequency settings. (Note: Iron can not be tuned out with a PI detector.)

It is recommended that the new user set different target items on the ground and pass the coil over them getting acquainted with the response the detector makes when locating them. Adjust the frequency control for best response to each metal test item, making note of where the best response position is on the frequency control. This knowledge will help you in identifying buried items.

One needs to keep in mind that a lot of different metals respond the same way electrically to a detector. Aluminum covers a wide range of responses from low conductive jewelry to large coins. Gold and gold jewelry covers a wide detecting response range depending on its alloy make up. As in all metal detecting ID'ing and discrimination, it is not exact. Metals do not always react the same way each time when excited by a transmitted signal of a metal detector.

### Wading

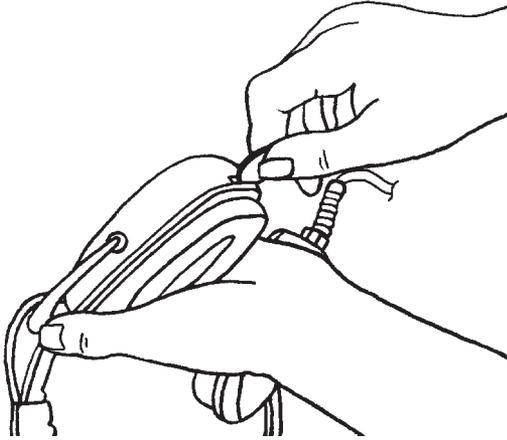
Wading with the headhunter Pulse is not only fun, but very rewarding. People have been losing objects in the water since the human race began. You can now start finding your share of these lost valuables with your headhunter metal detector. When you are wading you can't always see or reach the bottom where your searchcoil is. More experienced waders purchase a quality long handled scoop and floating sifter system. When you hear a signal that you want to retrieve, pinpoint it and use your long handled scoop to retrieve the target.

**Note: HEADHUNTER PULSE models do not have a battery check system. They can be operated continuously from 6-10 hours on a fresh set of alkaline batteries. The operator is advised to keep track of time logged on each set of batteries to avoid shutdown in the middle of a hunt. Always carry fresh batteries as a backup on every hunt. This is common practice with all detectors, with or without a battery check system.**

# **OPERATION**

NOTES:

## BATTERIES & MAINTENANCE



### **Battery Replacement:**

Your **HEADHUNTER** metal detector operates with two, 9-volt standard batteries (not supplied). Hourly use can be extended by using 9V Alkaline batteries.

To add or replace batteries, place a coin between the cup plate and the round stud on the earcup. Turn it until the cup "pops" open exposing the battery compartment. Note the placement of the worn batteries before removal. Remove the old batteries and insert two fresh 9-Volt batteries into the connectors.

This earcup is O-ring sealed. Be sure to carefully clean the O-ring, the groove it resides in and the mating halves of the earcup. Lubricate O-ring sparingly with silicone grease only. **DO NOT USE PETROLEUM JELLY.**

After batteries have been installed, carefully align the earcup halves and press until a solid "snap" is heard. Make sure battery connector wires are well inside of the seal area and do not get pinched on reassembly.

### **Maintenance:**

1. Always thoroughly rinse your **HEADHUNTER** in fresh water after using it — especially 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 or shock.

# WARRANTY

## Record Your:

Date of Purchase:

Dealer Name/Address:

**HEADHUNTER** Model:  DIVER  WADER  PULSE  
 LANDPRO

Serial Number:

**DetectorPro** warrants to the original consumer purchaser that your **DetectorPro** 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 batteries, cable breakage due to improper flexing, wear on searchcoil housing, and wear of cable protection. Also excluded are metal detectors that have been abused, altered, or repaired by an unauthorized party. Opening electronics side of headphones and tampering will void warranty.



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## SPECIFICATIONS



**Operating Search Frequency:** Adjustable

**Searchcoil:** 11" Round, Open-Center

**Audio Frequency:** Adjustable

**Headphone Transducer:** Piezo Electric

**Search Mode:** Slow Motion All-Metal

**Operating Environments:** Salt water, Fresh water

**Submersible:** Waterproof to 6 feet

**Length:** Wading Configuration: 43 to 53"

**Weight w/Batteries:** 3.5 Pounds

**Batteries:** (2) Alkaline (recommended), or Rechargeable

**Battery Life:** 6-10 hours<sup>1</sup>

**Warranty:** 2 Years

### NOTES:

1. When alkaline batteries are used in the detector
2. Specifications subject to change without notice