

Underwater Metal Detector

MD6000

Specification:

- Length: 1040mm- 1200mm
- Weight: 1.85 Kg
- Search Coil Diameter: 10 in.
- Frequency:
VF - Search: 2.4 KHz
Target Response: 400Hz
- Detection Indicator: LED, Headset
- Search Mode: VF - Discrimination, Slow Motion
- Operation Environment: Salt Water, Fresh Water, and Land Operation
- Batteries: 1*9V (PP3), Battery Life: 10-40 Hrs

Assembly

1. Remove the headphone, handle, and search coil from the carton. Be careful not to damage the rubber inserts or put any strain on the cable connections.
2. Adjust the stem to the appropriate length for use. Fully extended for stand-up use, or as short as possible for diving.
3. To extend the lower stem, push the spring lock. Pull out the lower stem. The spring lock will automatically snap into the next hole. Wind the search coil around the stem. Make sure there is enough slack at the end, by the control housing.

Set Up

1. Extend the stem while searching on land. Adjust the length and angle of the coil so that it rests flat on the ground.
2. While you are detecting, raise the search coil approximately 1 inch above the ground. The angle of the search coil may have to be slightly re-adjusted at this point.
3. The recommended setup for use underwater is the shortest possible stem length, with the search coil adjusted parallel to the seabed or lake bottom. Keep the headphones off and around your neck, **off your ears while descending or ascending.**

Control Panel

1. Power/ Sensitivity Control:

The sensitivity control knob is also the Power knob. Turn it clockwise to power on. Rotate the knob clockwise to increase the sensitivity. The highest sensitivity should be used in most detection.

2. **Discrimination Control:**

All types of metal are detected in the minimum range. Setting it to the max will help eliminate most small non precious metals. Turn counter-clockwise to set to Max.

3. **LED:**

The red LED flashes when there is detection. Note: The LED will also flash when the batteries are low and need to be replaced.

4. **Headset:**

As the LED flashes, the headset will also make a sound as an indication that the target is near.

Discrimination Points

Adjusting the discrimination enables the metal detector to distinguish between precious and non precious metals. Discriminations points are determined by factors such as size, shape, depth, type of metal, and minerals in the ground.

1. Place sample targets (coins, pull tabs, small pieces of foil) on the ground 1 to 2 ft apart.
2. Turn the Sensitivity control clockwise to set to Max.
3. Turn the Discrimination control counter- clockwise for Max
4. Place headset on and turn on the Power (metal detector).
5. Hold the search coil about 2 inches above the ground. Slowly, sweep it over the samples. You will see the LED indicator and hear a response as you pass over each sample. Keep in mind that the metal detector responds only when the search coil is moving.
6. Turn the Discrimination control counter clockwise (gray area) pass over the targets. Repeat the process at the yellow, then in the red area. You will notice that as you change the discrimination, certain targets are rejected. While others continue to cause a response.
7. Some objects such as bottle caps and pull-tabs, less than 2 inches from the coil may be difficult to reject. The headset will give out a broken signal; this will disappear by slightly raising the search coil.
8. The detector will remain silent when targets are rejected. Others may cause a “crackle” noise as they are rejected. This is a normal response in the discrimination circuitry. Keep in mind that larger non-precious target can also cause a stronger response, simply because they are larger in size. With a little practice and patience you will master the techniques and distinguish the differences in target response.