

# TERRA EXPLORATION GROUP

## EZ PULSE PRO

### ADVANCED PULSE INDUCTION

## THE MOST POWERFUL AND DEEPEST-SEARCHING PULSE INDUCTION METAL DETECTOR AVAILABLE TODAY

The Terra EZ Pulse Pro is an easy to use, professional grade pulse induction metal detector made for finding all metal objects, including deeply buried metal objects. The latest and most sophisticated metal detecting technologies are combined in this power-directing analog device providing a deep, stable, reliable and easy-to-use pulse induction metal detector that will give you many years of service and hopefully lead you to many valuable and rewarding finds.

The EZ Pulse Pro Pulse Induction Metal Detector magnetizes the ground with a powerful, momentary current sent into the ground through a search coil. In the absence of metal, the magnetic field decays very quickly and can be precisely measured. However, if metal is present when the detector is fired, small eddy currents are induced in the metal, and the time for the sensed and measured current decay noticeably increases. These time differences are minute, but can be accurately measured with state-of-the-art technology. The EZ Pro Pulse possesses a major advantage: it is generally impervious to the effects of ground mineralization---metals can now be located even under highly mineralized black sand.

### EZ RES PRO SPECIFICATIONS

- Large metal target detection depth: to 17 feet using 72"x72" optional frame and coil; to 12 feet with standard 48" octagonal frame and coil; to 7 feet with standard 22"x17" coil.
- Electronics: pulse frequency 203Hz, max voltage 400 v AC, max current 10 amps.
- 8-10 hours search time on rechargeable battery.
- Charger automatically shuts off when battery is fully charged.
- Audio and visible needle indication of metal detection.
- Manual Ground Balance (GB) Mode (non-motion mode).
- Automatic Ground Balance (GB) Mode (motion mode).
- Small objects/near-surface rejection mode.
- Automatic RF interference suppression.
- Adjustable sound sensitivity (Threshold).
- Small size and light weight (2.4 lbs.).



## DETAILS

1. **“VOLUME ON/OFF”**---on/off switch and volume adjustment.
2. **“THRESHOLD”**---sensitivity control.
3. **“AUTO GB”**---set the switch in the “up” position to select Auto GB Mode. In this mode of operation, the EZ Pulse Pro constantly adapts to changes in ground mineralization while maintaining the ability to detect metal objects and automatically reverts to initial settings after each detection event. The coil must be in motion for proper detection in this mode.
4. **“MANUAL GB”**---set the switch in the down position to select Manual GB Mode. In this mode of operation, the EZ Pulse Pro operates according to the settings selected by the user and does not adapt or compensate for soil mineralization changes. The coil does not need to be in motion for detection in this mode.
5. **“DELAY”**---used to adjust for ground mineralization and small target elimination.
6. **“TUNE”**---this button changes the current settings and quickly adapts the device to changed ground conditions and/or electromagnetic disturbances.
7. **“SIGNAL”**---indicator needle shows strength of received signal.
8. **“BOOST”**---enters boost mode to provide up to 30% deeper signal penetration.
9. **“LIGHT SENSOR”**---measures ambient light intensity and automatically switches the backlight ON/OFF.
10. **“LOW BATTERY”**---indicated battery is in need of a full charge.
11. **“Target ID”**---light indicates likely presence of a large metal object.

## STARTUP

Connect the search coil's plug to the electronic unit's corresponding socket. Turn the detector on by turning the **“ON/OFF”** switch to the right. Set the **“VOLUME”** to the desired level. Allow the detector a couple of minutes to “warm up” its' electronic components before you begin. The **“TARGET ID”** LED will shine brightly and start to flash when ready to go to work. It is very important to make all adjustments and settings in an area total free of metals to avoid “balancing out” metal targets. Make all settings and adjustments while keeping the search coil 4-6” above the ground. When using the large two person coil, make sure all metals and electronic devices are well clear of the coil---items in pockets, metal in footwear, cell phones, belt buckles, etc.

### **Manual GB Mode of Operation – Place Switch in Down Position**

Set **“VOLUME”** to the desired range. Make sure that the **“TARGET ID”** LED is not constantly lit up, but flashing. When constantly lit, it means there is a metal object near the coil. Set the **“DELAY”** knob to the desired target size. 5 – 9 for all objects---0 – 5 is for larger objects and will eliminate smaller surface objects. Turn the **“THRESHOLD”** knob to the right or left to adjust the pitch until it becomes a slow and consistent clicking sound. The EZ Pulse Pro is now set and your search can begin. When you encounter a metal object, the tone pitch and clicking frequency will increase.

### **Auto GB Mode of Operation**

Place the **GB Switch** in the up position. All adjustment should be done as it is in manual mode of operation. In this mode (Auto GB Mode), the detector automatically adapts to changes in ground/soil conditions, and the sound remains the same unless a metal target is crossed. This is best mode of operation when checking large areas. It is also called "Motion Mode" and the detector must remain in motion while searching. The best coil swing speed is about 3 feet/second. When the device detects a signal, and you stop "above" it, the detector will eliminate the target as “mineralization”. When you move the search coil/frame away from the object you just found, the device will re-adjust to the new condition and start clicking normally again. You can also press the "TUNE" button in order to reset the detector.

### **Tips for Searching with the Large Frame Coil**

When using the large frame coil, it must be held by 2 people using the straps attached to it and must be held at least 6 inches above the ground. Holding it higher will also help eliminate smaller surface objects. Small objects will tend to make two short sounds as each end of the coil passes over them. Larger objects will

typically make one longer sound as the coil passes over it. Shallow objects will make a higher pitched sound. Deeper objects will make a lower-pitch sound.

### **Tips for Searching with the Small Coil and Handle**

Adjust the length of the telescoping handle to a comfortable length. The cable connecting the coil and the device should be wrapped around the handle and NOT be loose and swaying near the coil. The coil needs to be at a distance that allows undisturbed parallel moves 4-6" above the ground surface. Metal targets close to the surface will typically cause two quick sounds as the coil passes over them, larger targets typically cause one longer sound. Shallow objects will make a higher pitch sound. Deeper objects will make a lower pitch sound.

**The EZ PULSE PRO** provides a limited two year warranty. The host electronics unit is warranted against defects in materials and workmanship for two years from date of purchase. All other parts are warranted against defects in materials and workmanship for one year from date of purchase. The Warranty is void in case of mechanical damage of any of the device's components, caused by negligence, misuse, intentional damage, unauthorized opening of main or battery unit, damaging the connecting cable and its plugs, overcharging the battery or using a charger other than that supplied, usage of incompatible coils or frames. In order to have your device serviced (within the Warranty period and beyond), you must return it to your dealer. All postage fees are to be paid by the buyer.

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**Austin, Texas USA**

**[www.TexGru.com](http://www.TexGru.com)**

**[info@TexGru.com](mailto:info@TexGru.com)**

**512-280-9600**