

USA PINPOINTER PRO

User Manual



Depth and type of target govern the type of tool (detector) needed.
At **ACCURATE LOCATORS** we offer a wide variety of Imagers.



Thank you for purchasing the **PINPOINTER PRO**

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PINPOINTER PRO

The **PINPOINTER PRO** is a state of the art ground imaging instrument that is well suited for both the utility locator as well as the professional treasure hunter. It has advanced software which makes operating the unit and data analysis much simpler than other brands available. The software renders color representation of the surveyed field, as well as in real time. Added as an additional imager the **PINPOINTER PRO** can detect the strongest and weakest point of a target as well as estimating depth, and can penetrate deeper than most other instruments. This unit can be used with all **USA IMAGER SYSTEMS**.

The **PINPOINTER PRO** is a stand alone unit. The control unit is in the antenna, just plug the USB cable into the computer, plug the other end into the antenna, open the program and you are ready to go.

The system comes complete with all you need to survey with confidence and accuracy, and is available with optional equipment for even more convenient operations.

Packing Contents

- * Antenna with built-in Control Unit
- * Carrying case for antenna
- * Cable for connecting antenna and computer
- * Tablet Personal Computer (complete with Windows XP, built in WI-FI and Bluetooth)
- * Carrying case for computer (can be belt mounted)

Optional equipment (details on page 11) includes:

- * PC video gasses
- * GPS systems



Getting Started

Quick Start Pinpointer Pro
PC Brand Subject to Change Without Notice

Training

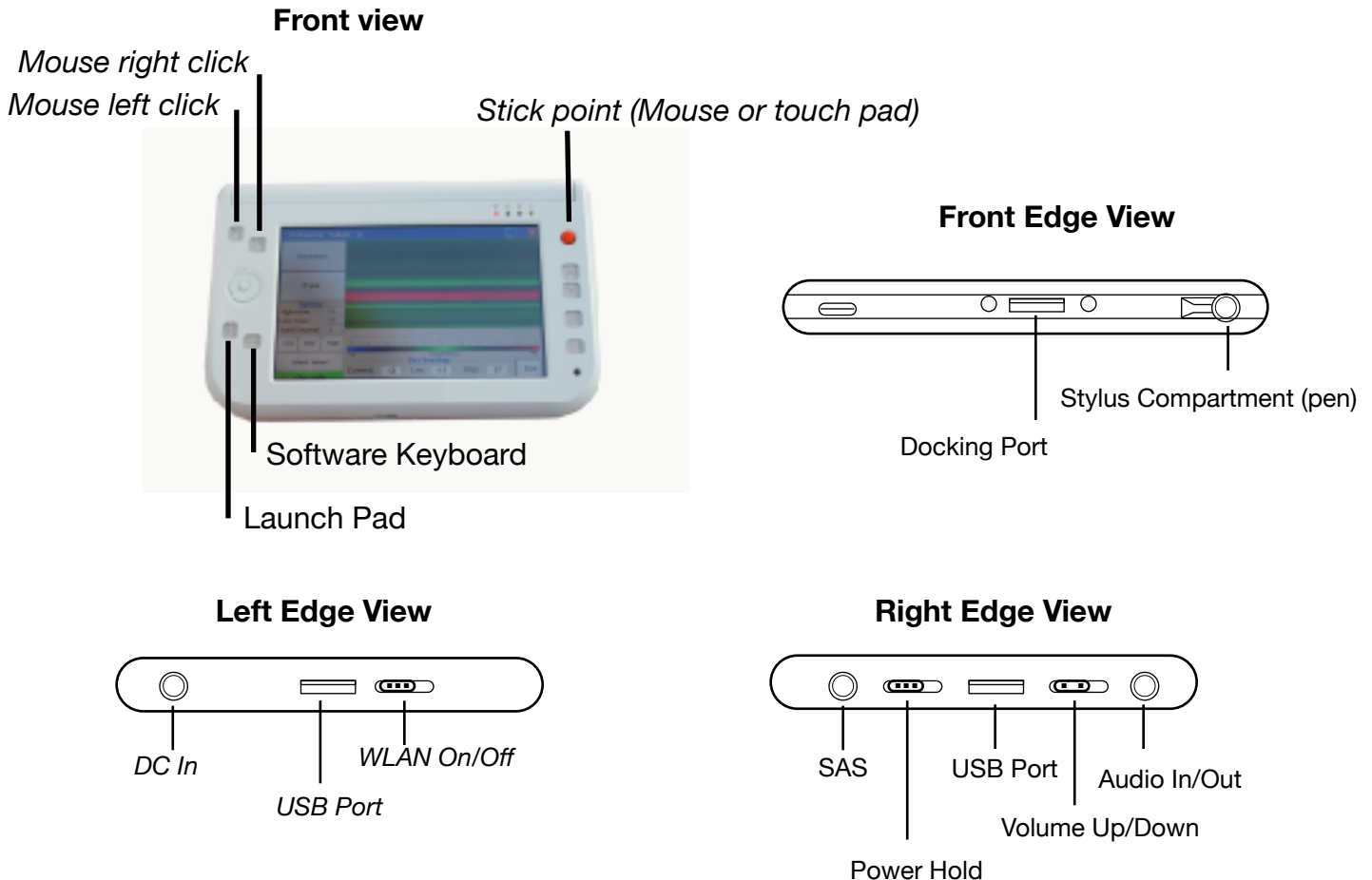
Training is available with the purchase of a unit, and one hour of technical assistance is offered after purchase.

Software

The software included with the PINPOINTER PRO is installed and ready to go to work for you.

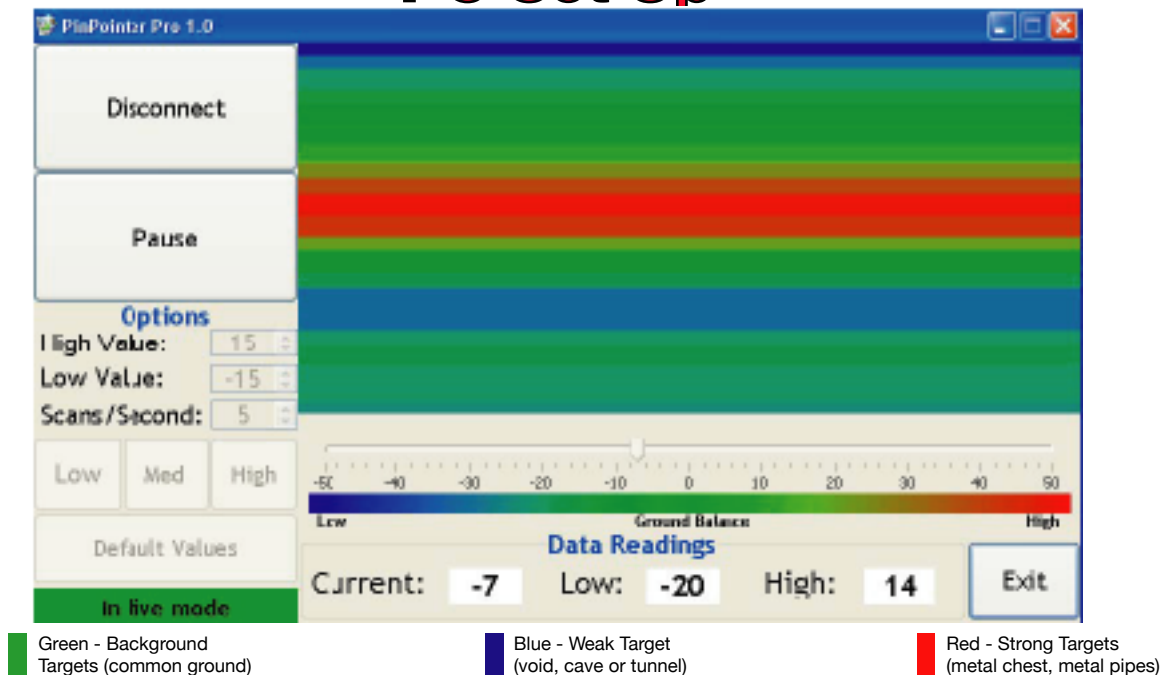
Quick Start Procedure

1. With the cable supplied plug the USB end into PC USB port (left edge view) then plug the other end of the cord into antenna
2. Turn on UMPC or laptop computer (left edge view) and start software
3. Allow a few moments for the programs to communicate with each other
 - A. Click on recommended resolution of 800X480 (if not preset)
 - B. Using stick point button or stylus move over Pinpoint file and left click (front view)
4. When it's ready, click Connect then click Start, now you may begin scanning
5. Keep antenna pointing down (vertical) as close to the ground as possible and in the same direction, without rotating the antenna for best results.



Detailed PC information supplied on pages 4 and 5

PC Set Up



Scans / Second

Scans per second is default set at 5, for normal walking speed of scan (how fast you travel). The highest setting of 10 would be for running or vehicle speed scanning.

High and Low Value

The high and low value is default set at 15 and -15 and can be changed for the strength of the target. The value settings are: Low = 10/-10, Med. = 25/-25 and High = 50/-50, the arrow boxes next to the value squares fine tune to precise numbers. Clicking on the default value returns the values to the default settings. For the weaker targets the high and low settings (under options) can be decreased to detect the weaker targets (example 10/-10 or 5/-5 for even weaker targets). The stronger targets dictate raising the values to separate the surrounding background from the target.

The high and low data readings capture the highest or lowest signals for that scan. While scanning a small difference in the numbers can mean a target is detected.

Current

The current reading is where the antenna is reading at the time. The current (current signal strength) reading can assist in relocating the highest / lowest reading point (or target). The highest and lowest numbers captured as data readings can be matched with the current reading to relocate or confirm target. The color bar is indicating the current reading also.

Monitor Indicators

The colors indicate: Green as ground or background targets. Blue indicates weak targets such as voids, tunnels, caves and possible non-ferrous metals. Yellow / Orange indicates medium targets or the edge of a strong target. Red is a strong target such as ferrous metals. If a weak target isn't indicated in red on the monitor then lowering the values will result in showing the target colors.

STATUS BAR

6 Indicates the connected or not connected status of the antenna.

Ground Balancing and Scan Method

Ground Balancing

Pause and without turning the antenna (clockwise or counter clockwise) set PC at "0" (click on start) over ground that is known not to have a target, this is referred to as ground balancing. You can repeat the Ground Balancing during a scan to clear past high and low readings (but ground balancing starts over).

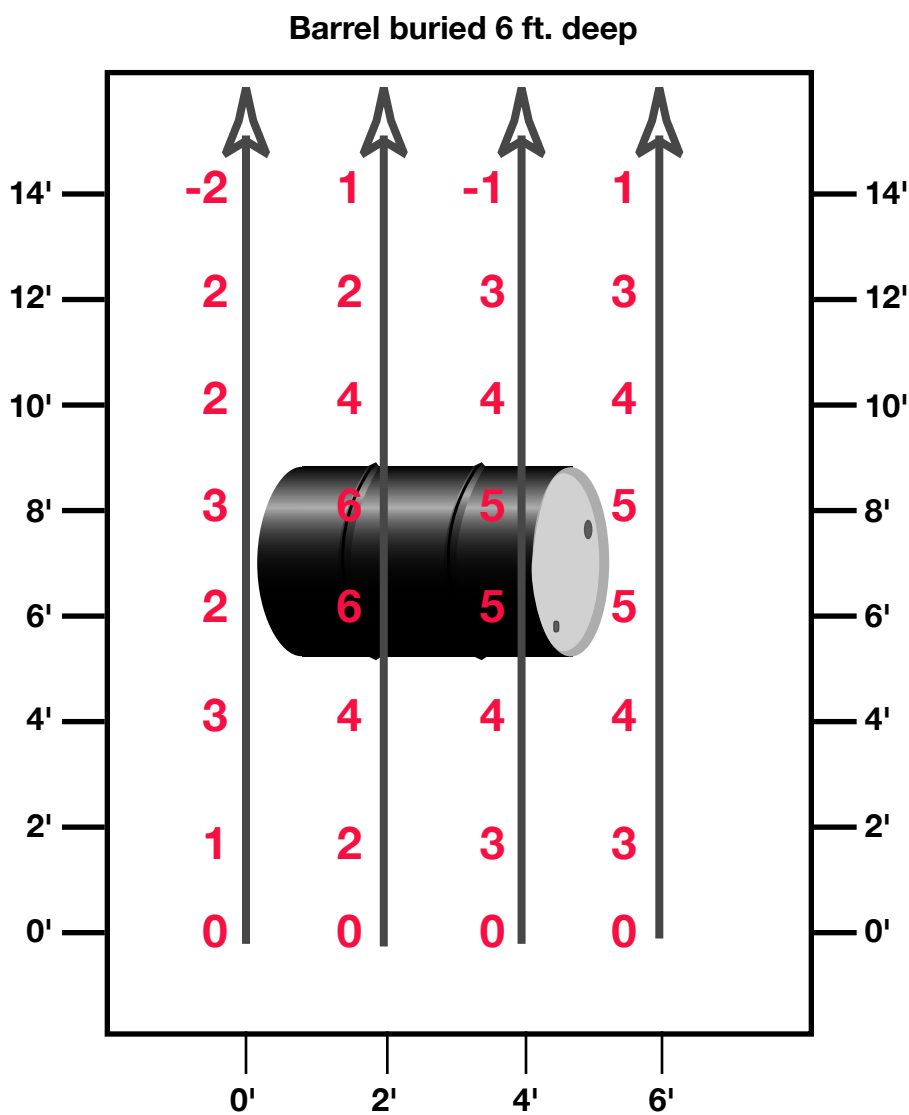
Mark a starting point on the ground far enough from the suspected target to have sufficient background readings and proceed in a straight line toward desired point (past target area). It's recommended laying out a grid marked on the ground for an organized accurate scan (with a GPS the grid can be laid out on it). To continue a grid scan return to the beginning point and move to the right of that point (about 2 ft. or less increments) and repeat the scan once again. Repeat this technique as many times as desired. If possible scan south to north for best results. Live mode is real time, showing what you are scanning currently and is not in the memory of the PC. Antenna is always best to be pointed in the same direction, vertical and as close to the ground as possible.



For depth estimation mark the ground over target (largest Number) then walk away from target until you get "0" reading. Then measure distance to target, that distance will be approximate depth. Repeat several times at different angles of approach to affirm depth estimation.

Scan Method and Samples

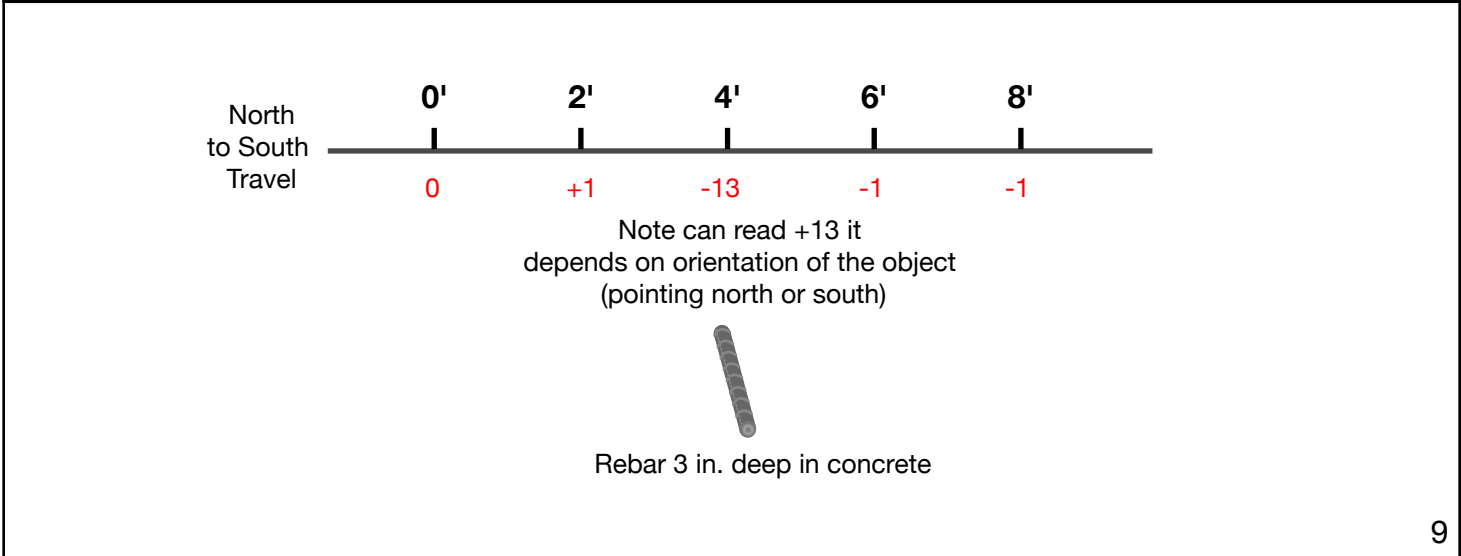
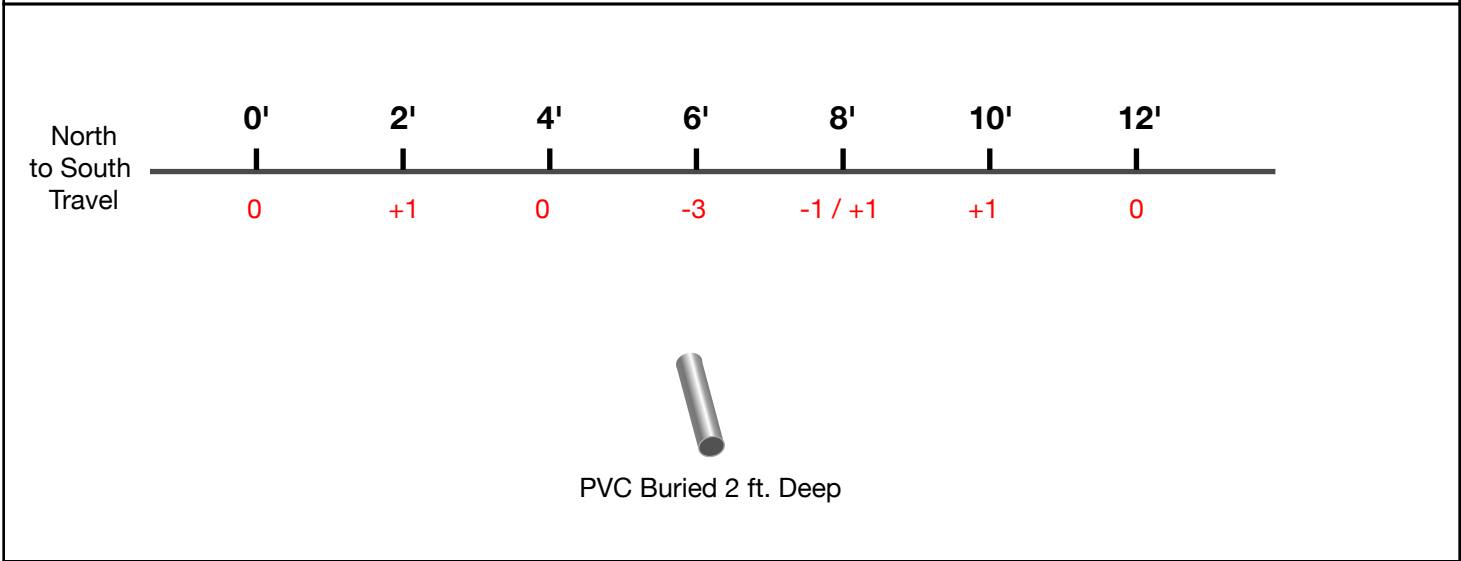
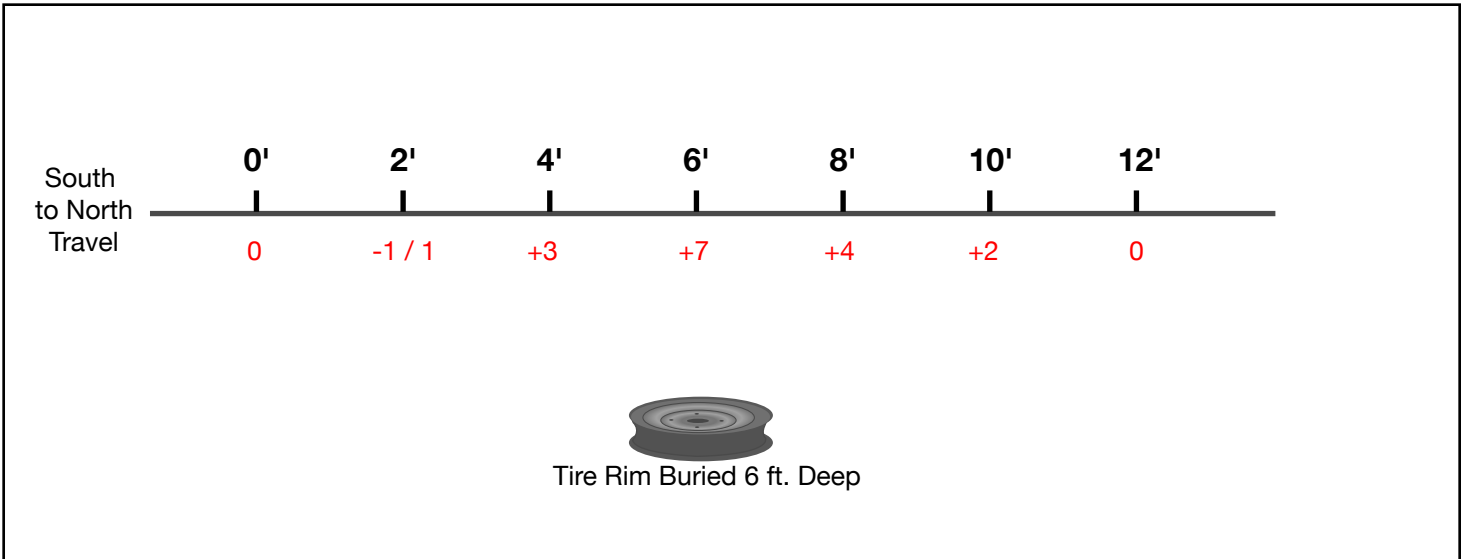
When detecting hollow objects or objects with disturbed ground you can read both negative and positive numbers as it can detect the metal or the void, also the direction (north, south) the antenna is facing can influence the numbers. The indicating numbers may not be large, it is the difference in numbers that is the indicator. The monitor will show red when detecting a metallic object and blue will be a void (a negative or milligauss reading) when the values are set correctly. When a target is located mark the ground and approach the target area from different angles and try to repeat the scan results to confirm target location (this will assist in depth of target equation also).



For depth estimation mark the ground over target (largest Number) then walk away from target until you get "0" reading. Then measure distance to target, that distance will be approximate depth. Repeat several times at different angles of approach to affirm depth estimation.

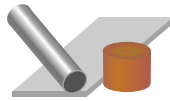
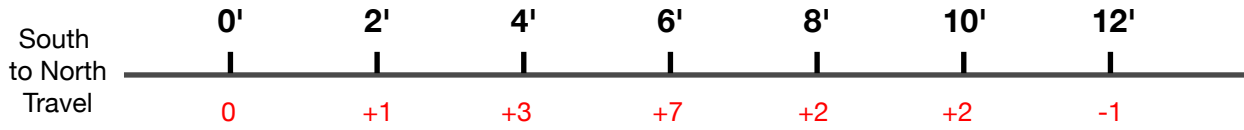
Scan Samples Using the Pinpointer Pro

Scans Performed in the Dry Desert Climate at Walking Speed

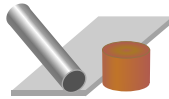
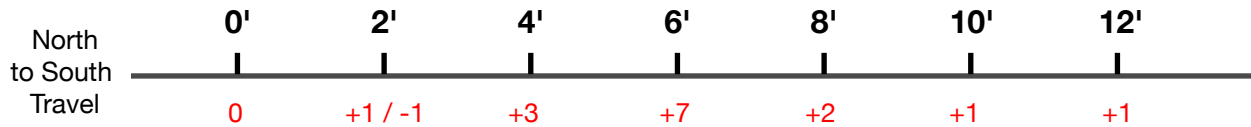


Scan Samples Using the Pinpointer Pro

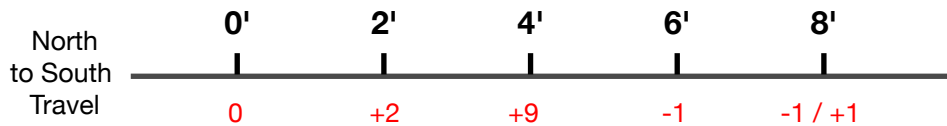
Scans Performed in the Dry Desert Climate at Walking Speed



Copper, Aluminum and Other Metals Buried 5 ft. Deep



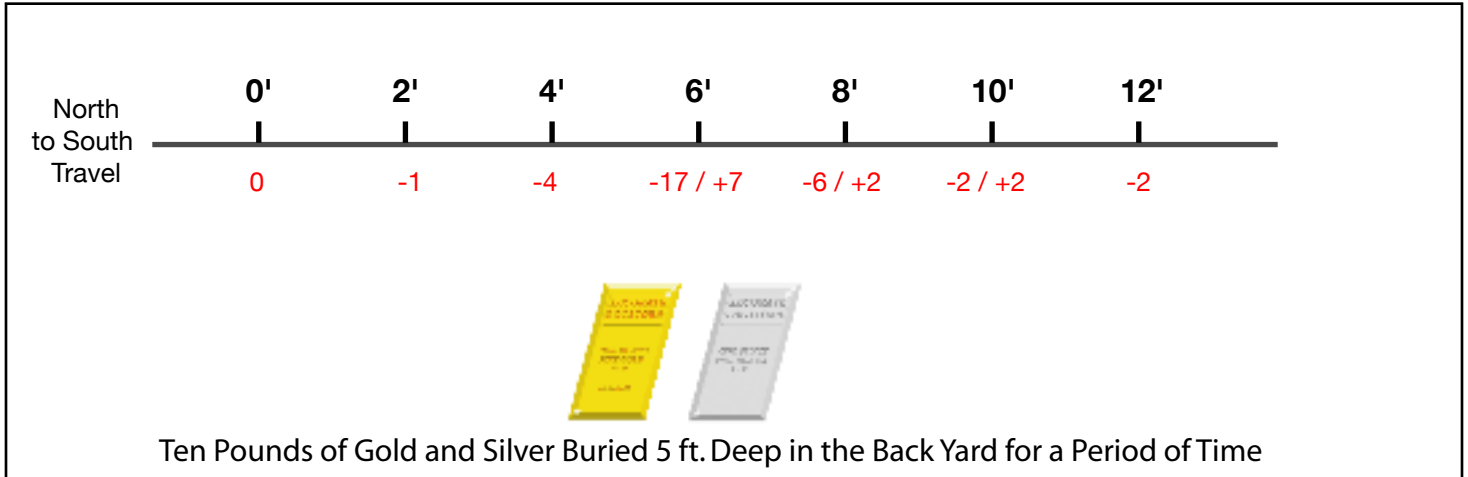
Copper, Aluminum and Other Metals Buried 5 ft. Deep



Hammer Head Buried below concrete floor

Scan Samples Using the Pinpointer Pro

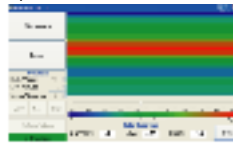
Scans Performed in the Dry Desert Climate at Walking Speed



* Optional Equipment for the Pinpointer Pro

- *Daylight readable (can be read in the brightest sunlight)
- *Hands-free, heads-up viewing
- *Low power consumption
- *Ergonomic design
- *Plug and play

Equivalent to a 17 in. monitor



Making practical portable, you can see where you are walking while viewing the results of your Imaging. The PC Video Glasses mount on eyeglasses or safety eyewear and provides a monocular color full VGA image. The viewer is a full video rate product capable of full motion video at 60 frames per second.

It features quick release mounting system so that it can be easily attached and detached from the user's eyewear. The PC Video Glasses are field-changeable to a left or right eye viewer. The focal distance can be adjusted from 2 feet to infinity. The PC Video Glasses provides convenient controls for adjusting the contrast, brightness, tint, and color of the image. The miniature controls and battery are integrated in a lightweight, sleek system that is easily clipped to a belt or carried in a pocket. Operating time on a single charge is approximately 5 hours.

* Optional Equipment for the Pinpointer Pro



In mining, GPS positioning data can be critical to mission planning, safety and legal claim. Accurate Locators offers a number of GPS survey systems, optimized for mining surveys to acquire and stake out features with precision accuracy. GPS systems can also be used to lay out shaft connections from the surface to guide tunneling.

See the terrain in vivid detail using the 3-D map views and controls. These realistic views also retain the various elements you add to your customized maps – Trails, Map Notes, GPS Waypoints, and Draw Objects. Add Map Notes; draw your own claim and then measure the area of your claim (see the square footage or acreage of plots of land). Even draw in your own roads and route on them – these are amazingly powerful draw tools.

Trouble shooting

Trouble shooting

If your computer won't turn on check to make sure the battery is plugged in properly and has a sufficient charge.

If the computer stops reading or is sporadic check the plug-ins on the computer and the antenna for a secure positive connection.

If your readings are different than the previous reading your direction of scan may be different or you may have the antenna closer or further away from the ground. Or the Ground Balance location may be different (repeat scans have to be very precise in all details as this instrument is very precise). If you are attempting to read on a different day or even a different time of day the ground moisture content can effect scan readings. Another cause of different readings may be your shoes may have metal on them and you are to close to them.

Erroneous readings may be a result of the antenna being turned clockwise or counterclockwise.

Low battery can be a factor in erroneous readings although your computer will warn you with a low battery notice.

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Limited Manufacturer's Warranty

Accurate Locators Inc. warrants product against defects in material or workmanship for a period of one (1) year from the date of purchase by the original purchaser. If **Accurate Locators Inc.** determines the product to be defective in materials or workmanship, **Accurate Locators Inc.** will replace or repair the product. To obtain warranty service worldwide, call 1-541-326-4169 or visit us at www accuratelocators.com. (Please include a written description of the problem). A Return Merchandise Authorization ("RMA") must be obtained prior to returning the equipment. **If equipment is returned without a "RMA", it will not be accepted.**

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Accurate Locators Inc.'s warranty is for repair or replacement of products that proves to be defective in workmanship or material subject to the warranty period and any other condition set forth on the package. Physically damaged merchandise or merchandise where control seals are removed or damaged is not covered under warranty. Customer is responsible for all shipping costs to and from **Accurate Locators Inc.**

Accurate Locators Inc. offers a limited one (1) year warranty on all products manufactured by **Accurate Locators Inc.** All other products manufactured other than by Accurate Locators will fall under those product's manufacturers warranties only.

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