

AST Live!

Sonic Locating...in Real Time

Cartacoustics has developed a new approach to locating underground infrastructure. By using specially-crafted sound, we can locate and trace buried pipes and cables more reliably and deeper than any other available method.

AST Live is the first of its kind in underground locating technology. We can find and measure depth of infrastructure down to 30 ft on the spot. This helps engineers, infrastructure owners and contractors operate in the field in a safer and more confident ways, reducing downtime due to strikes and protecting existing cables and pipes.



| Performance Measure | AST Live |
|---------------------------------|--|
| Buried Material | Metallic, PVC, Fiberglass, Plastic, Clay |
| Soil Compatibility | All – Sandy, Loamy, Clay, Rock, Dry, Wet |
| Weather | All |
| Detection Depth | 25 ft |
| Geo Position Accuracy | 1-2 ft |
| Depth Accuracy | 2 ft |
| Field Crew Size | 1 |
| Equipment Cost | \$40k-\$50k |
| Risk to Existing Infrastructure | None |

CARTACOUSTICS

Contact us to learn how we can help you with your underground mapping needs... *in real time.*

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Cartacoustics sonic approach to underground locating has a number of key advantages over existing non-intrusive locating technologies. The two main ones are our ability to **detect non-conducting materials such as plastic, PVC, fiberglass, and vitreous clay**, and the other is that we can **operate in all soils and soil conditions**.

We have successfully collected in saturated soils along the gulf coast, rocky and sandy soils in the mountain west, and in high-clay content soils. We have also collected with 4 inches of snow on the ground and immediately after a hard rain. This increased operational flexibility will enable you to better meet your customers' needs.

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| Performance Measure | Probing | Digging | Electric & Magnetic | Cartacoustics |
|---------------------------------|------------------------|---------------------------|----------------------|--------------------------|
| Buried Material | All | All | Conducting/Magnetic | All |
| Soil Compatibility | All | All | Limited | All |
| Weather | All | Good | Good | All |
| Detection Depth | <20 ft | <12-15 ft | < 10 ft | 30+ ft |
| Positioning Accuracy | High, when you find it | About 2 ft (bucket width) | 2-3 ft | 1-2 ft |
| Field Crew Size | 3-2 | 4-3 | 3-2 | 2-1 |
| Equipment Cost | \$100's-\$1000's | \$100k's | \$20k-\$40k | \$40k-\$50k |
| Job Costs | \$1,000's | \$10,000's | \$1,000's | \$1,000's |
| Turn Time | days | weeks | days | days |
| Risk to Existing Infrastructure | Medium | High | Low | Low |
| Product Format GeoReferenced | Paper Afterward | Paper Afterward | Paper/Digital Add-on | Digital/Paper Integrated |

Current Technology



Acceptable Soils and Soil Conditions
Penetration Depth: ~ 10 feet

ASTlive!



Acceptable Soils and Soil Conditions
Penetration Depth: 30+ feet

CARTACOUSTICS

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