

Argos

Single Sensor Gradiometer



Extra Sensor Perception

Your mag survey found your anomalies. You're close. In the old days, you'd rely on luck to find your target buried somewhere below a flat, indistinguishable patch of sea floor. Or not.

Expensive multi-day searches that send surveyors home empty-handed are the norm because even a narrowed down target area can be a lot of ground to cover. Especially when some of that area is underground.

Now you can augment your efforts with the world's first handheld total-gradiometer. **Argos** is the kind of innovation that makes you wonder how you ever got by without it.

Technology

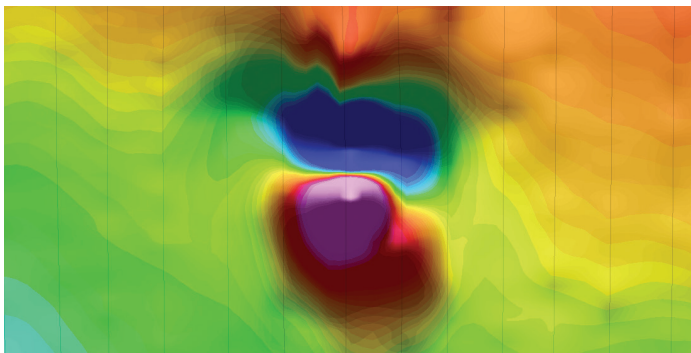
Argos measures the Analytic Signal in real-time, guiding you to the best place to dig for your target via LEDs and earpiece.

Applications

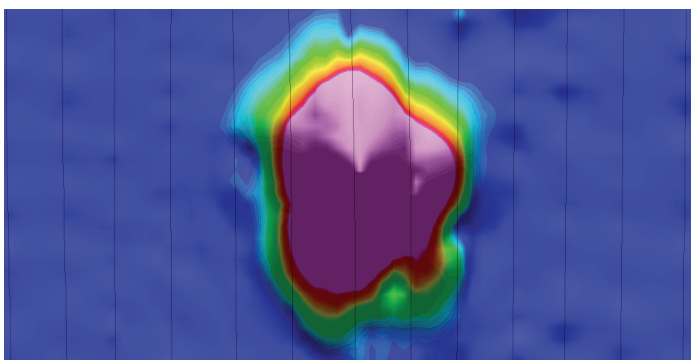
- UXO
- Underwater Archaeology

Above: Dr. Christopher Horrell & Dr. Frederick Hanselmann use Argos to search for artifacts from the lost fleet of Hernan Cortes in Mexico. Photo credit: Jonathan Kingston

Argos in the Field: Anchor Discovered in 2019



Magnetic Map. Raw data collected by a boat-towed magnetometer survey reveals complex anomaly shapes that can be difficult to interpret and identify where source objects are located.



Gradient Map. The computed Analytic Signal or Total Gradient map of the same area illustrates a clearly identified target area, but in a region that may be many meters in diameter.



Discovery with Argos. The anchors that created the anomalies above were found in minutes by Argos. The anchor pictured was entirely buried; this image shows it post-excavation.

Specifications

Performance

Operating Zones	Worldwide. Argos collects accurate results regardless of how it's pointed in relation to Earth's magnetic field.
Depth Rating	100m.w.e. (145 psi)
Battery Life	15 hours (estimated)
Range	18,000 nT to 120,000 nT
Gradient Sensitivity	5 nT/m
Sampling Range	1 Hz - 5 Hz. The speed of feedback (pings) is proportional to how magnetic or close the target is.
Communications	RS-232, 38400 bps
Included Charger	24 VDC (125/240 VAC compatible) (Acceptable range 20-30 VDC)

Argos Single-Sensor Gradiometer

Length	86.5 cm (34 in)
Diameter	7.6 cm (3 in)
Weight in Air	3 kg (6.61 lbs)
Weight in Water	-11 g (-0.4 oz)

Audio Interface

Length	1.5 m (59 in)
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System Consists of:

Argos Single Sensor Gradiometer

- Overhauser sensor and driving electronics
- Depth rating: 100m.w.e. (145 psi)

Additional Components

- Audio cable
- Battery charger
- PC interface cable
- Reusable plastic shipping case