

Rough Terrain Antennas



Compact shipping/ storage



Rechargeable batteries



Battery housing protectors



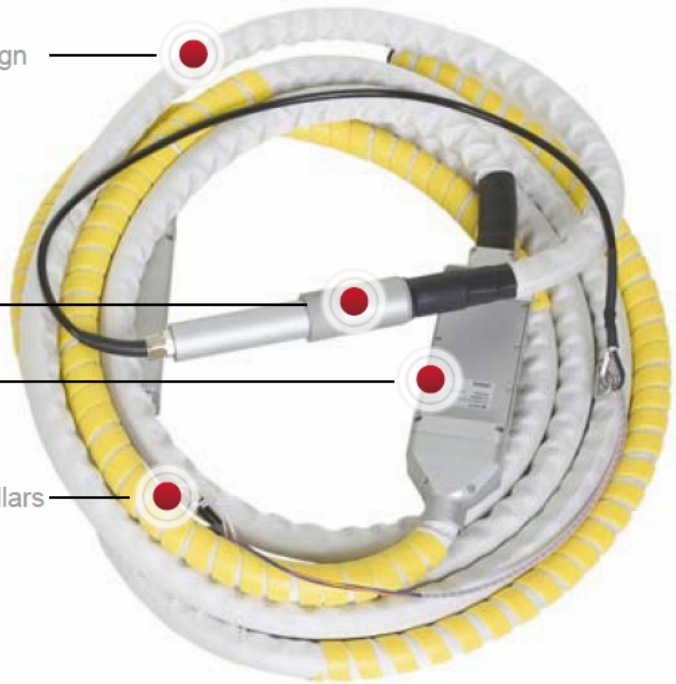
Typical system set-up

1. Flexible field rugged design

2. Secure cable termination with pulling eye

3. In-line rechargeable batteries

4. Removable skid/wear collars



The Rough Terrain Antenna (RTA) series changes the face of low-frequency Ground Penetrating Radar (GPR) surveying. The unique in-line, all-in-one, antenna design provides improved performance for deeper penetration.

The flexible “snake” like design allows the antenna to be maneuvered easily and efficiently through the densest or most uneven of terrain without affecting ground contact, providing optimum results in the most difficult of environments.

The most important benefit being that the operator doesn’t have to clear an access path or route prior to the profile or survey.

Even in relatively easy environments the RTA out performs the rest, with proven results showing a significant reduction in survey time and manpower costs.

Existing users of the RTA report reductions in survey time and manpower requirements to a third of those experienced when using traditional unshielded antennas.



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Brief Description & Technical Specification

Typical system set-up comprises a ProEx control unit mounted in a backpack, XV Monitor, RTA, rechargeable batteries and a triggering mechanism (survey wheel, hip chain, or time).

The whole design is rated to IP67 and complies with the European ETSI EN 302 066-1 standard.

30 MHz

The RTA 30 MHz is suitable for investigations requiring the deepest possible depth penetration.

Length: 13.06 m (distance Tx-Rx: 6 m)

Weight: 7.8 kg



50 MHz

The RTA 50 MHz is suitable for investigations that require medium to depth penetration. This was the first antenna in the RTA series and has found wide appeal since it was released in 2004 with a proven track record.

Length: 9.25 m (distance Tx-Rx: 4 m)

Weight: 7.0 kg



100 MHz

The RTA 100 MHz is suitable for investigations that require medium depth penetration with reasonable resolution.

Length: 6.56 m (distance Tx-Rx: 2 m)

Weight: 6.0 kg



Applications

The RTA series is recommended for deep geological layer investigations. Although, other applications include: Glaciology, archaeological/ anthropological investigations, mapping of groundwater resources and depth to bedrock mapping.

Accessories

A number of accessories are available for the RTA antennas, including:

- Towing belt
- Skid plates
- Hip chain



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