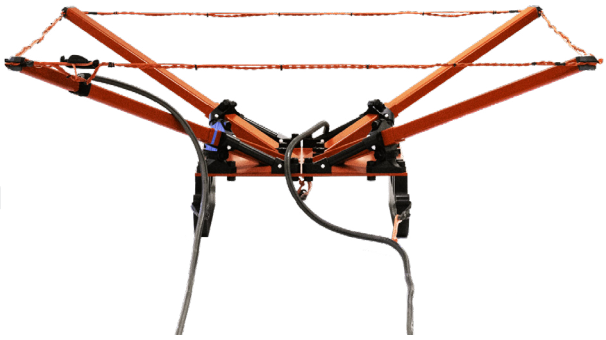
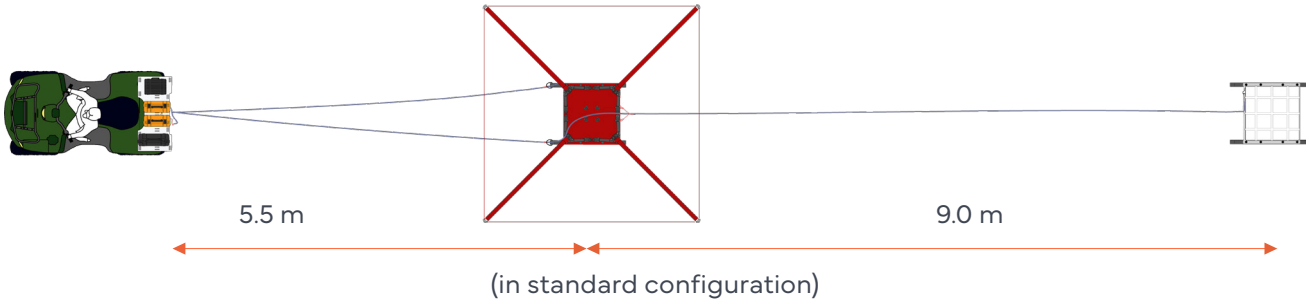
ABEM
by Guideline Geo

Technical Specification

ABEM GroundTEM Ralli



From a single profile, to an entire landscape, the ABEM GroundTEM Ralli is the ultimate solution for rapid surveys of conductive targets. Designed for efficiency, this cutting-edge, app-controlled, survey solution delivers precise resistivity data for groundwater, geology and environmental surveys down to 200 m.



(in standard configuration)

General

Control	GroundTEM Ralli Controller on Android tablet (supplied) (PC software also available)
Survey speed	up to 20 km/h
Positioning	Onboard GNSS
Environmental	-20 to +50 °C
Communication & support	Via Wi-Fi / internet connection
Upgrades & diagnostics	

Transmitter (Tx)

Loop options	2 m × 2 m × 1 turn 3 m × 3 m × 1 turn 3 m × 3 m × 3 turns
Output current	Dual moment 3 A / 30 A (3 × 3 × 1 Tx loop)
Pulse frequency	2000 Hz / 630 Hz (3 × 3 × 1 Tx loop)
Cooling	Active, liquid
Power	External custom battery case for (recommended) 12 V 100 Ah Li-ion battery

Reciever (Rx)

Channels	1
Coils	0.6 m × 0.6 m, multi-turn (20 m² effective)
Sample rate	4 MHz
First gate	Centered on 4 / 12 µs (low / high moment, 3 × 3 × 1 Tx loop)
Power	1 × removable Li-ion 14.4 V, 6.8 Ah, 99.4 Wh

Shipping

Main system	Palletized 1.2 × 0.8 × 1.0 - 1.2 m (W × D × H) ~ 150 kg
Additional package for 3 m Tx loops	2.0 × 0.2 × 0.2 m (W × D × H) ~ 13 kg

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