

Technical Specification

Groundwater and environmental TEM surveys are now more affordable, less complex, and quicker with the **ABEM GroundTEM i5** and **i10**. These low-cost, user-friendly, app-controlled instruments, complement the existing **ABEM WalkTEM** range perfectly.

Power comes from removable lightweight lithium-ion batteries and control is through a dedicated Android/iOS app. Easy to carry into the field, and set-up, getting resistivity information to depths in excess of 200m takes just minutes.

Resistivity variation can help locate groundwater, monitor aquifer health, identify potential pollutants or saltwater intrusion, and differentiate between different geological deposits.



General

GroundTEM app:	Android, iOS
Onboard power (RX+TX):	2x removable Li-ion 14.4V, 6.8Ah, 99.4Wh
Instrument weight:	6kg, incl. batteries (~13lbs)
Environmental:	IP65, -20 to +50°C
Positioning:	Onboard GNSS
Upgrades & diagnostics:	Remote, via internet

Transmitter

Output current:	Dual-moment 1A / 5A (GroundTEM i5) 1A / 10A (GroundTEM i10)
Switch-off:	7 µs (low moment) 13 µs (high moment)
Duty cycle:	Default 46% / 30% (LM/HM)
Loop options:	20 x 20m (2.5mm ² , 1 turn) 40 x 40m (4.0mm ² , 1 turn)

Receiver

Channels:	1
Sample rate:	4MHz
Coil options:	3 x 3m (flexible, 4 turns) 200khz bandwidth



Shipping case

Dimensions:	80 x 60 x 44cm
Weight (packed):	~30kg (40 x 40m system)

The GroundTEM i5 / i10 shipping case is included with all systems and holds the instrument, transmitter loop, receiver coil, and battery charger.



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