

Mini Raptor Data Sheet

The raptor series are a set of High speed GPR systems which use real time sampling (RTS) technology to obtain accurate and fast results in a variety of applications. The cart configuration can be used as an 8 channel arrangement for the 450MHz antenna, up to a 12 channel array for the 800MHz antenna. The raptor cart can easily be constructed, transported and stored by one person for use on a number of project sites especially in constricted areas. In terms of the data collection, the data acquired over each survey line can be combined with DGPS data improving the accuracy and gathering process. Furthermore, its modular design allows the user to make their own channel arrangement (from 4ch to 30ch) depending on their requirements.



Fig 1. Image showing the typical arrangement of the Cart Raptor GPR series in different environments.

Features

- Fast data collection at 130km/hr, 5cm point interval
- High Dynamic range and deep penetration
- Small Point interval and rapid data collection regardless of the n.o channels
- Low Weight
- Flexible, modular and plug and play configuration of antennas, no control unit

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	900 mm x 700 mm x 250 mm	42kg (450mhz) or 36kg (800mhz)

Technical Specifications

Antenna Center Frequency:	450MHz or 800MHz
Antenna Footprint:	165 x 230 mm or 110 x 150 mm
Antenna Weight:	1.86 kg or 0.95 kg
N.o Channels:	8 or 12
Scan Width:	580 mm / 600 mm
Cart weight and Dimensions:	42 kg; 900 x 700 x 250 mm or 36kg; 900 x 700 x 250 mm
Power Consumption:	48 W or 72 W
Maximum System Configuration:	30 Channels
Environmental Rating:	IP 65

Videos

Raptor is the solution

<https://www.youtube.com/watch?v=OFFX5yGVDE>

ImpulseRadar Ground Penetrating radar Raptor-45 Cart Demo (drone view)

<https://www.youtube.com/watch?v=piQSfUfPt7s>