

Vehicle 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 Vehicle carrier option allows the operator to choose between a 12 channel arrangement for the 450MHz antenna up to an 18 channel array for the 800MHz antenna. The robust design of the raptor vehicle array, allows the user to fix the carrier to survey vehicles with ease, allowing fast data collection in regulated traffic flows. Once the survey is finished the carrier can be easily stored in the back of your vehicle and transported for use on a number of project sites. In terms of the data collection, the data acquired over each survey line can be combined with DGPS data improving the accuracy, the data can be gathered over a single swatch over one pass enabling efficient data collection. Furthermore, its modular design allows the user to make their own channel arrangement (from 4ch to 30ch) depending on their requirements.



Fig 1. Shows the features of the vehicle carrier and how it fixes onto a survey vehicle

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)	1900 x 800 x 600	87 kg (450mhz) or 77 kg (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
Antenna Polarization for both antennas:	VV or HH
N.o Antennas:	18 or 28
Scan Width:	1400 mm
Vehicle system weight and dimensions:	87 kg; 1900 x 800 x 600 mm or 77kg; 1900 x 800 x 600 mm
Power Consumption:	108 W or 168 W
Maximum System Configuration:	30 Channels
Environmental Rating:	IP 65