Raptor

3D GPR Array Series

Cutting-edge 3D GPR Array solution for efficient subsurface imaging

The fastest high quality 3D GPR

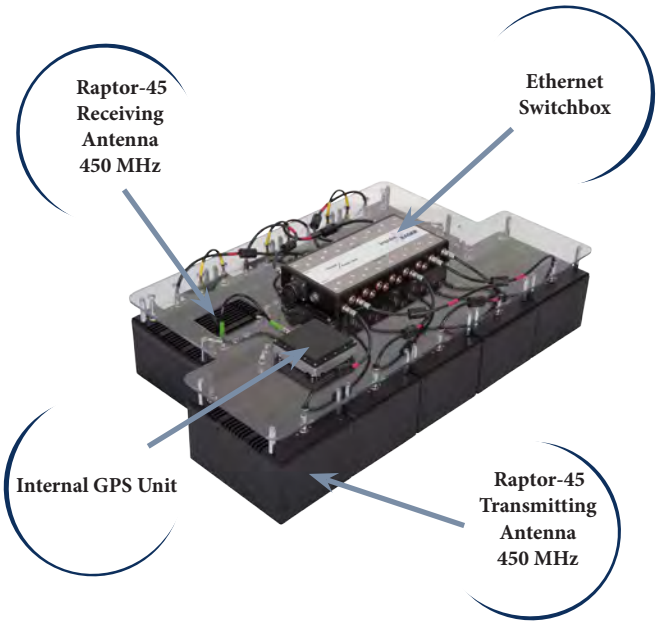
ImpulseRadar Sweden AB
Storgatan 78
SE 939 32 Malå, Sweden

+46 953 100 08
info@impulseradar.se
www.impulseradar.se

ImpulseRadar defines GPR

Raptor

Series Overview and Features



High Speed 3D GPR Array

ImpulseRadar Raptor system, a state-of-the-art 450 MHz or 800 MHz 3D GPR array solution.

Raptor 3D arrays are based on Real-Time Sampling (RTS) technology and the unique antenna design is a milestone in the evolution the GPR.

- Fast collection, 130 km/hr, 5 cm point interval
- High dynamic range and deep penetration
- Small point interval and rapid data collection regardless of number of channels
- Low weight
- Flexible, modular and plug and play configuration of antennas, no control unit
- No control unit

450 MHz or 800 MHz

The Raptor system covers a wide range of applications and can be configured with 450 MHz or 800 MHz antennas.

Simplicity

Efficient subsurface mapping with simplicity and flexibility in mind. Real-Time-Sampling (RTS) technology enables high speed data collection to achieve maximum productivity and optimum results.

Flexibility

The unique design allows the array to be configured quickly, easily and expanded as needed.

Efficiency

The density of collected data means that a single pass is all that is needed to obtain high quality 3D information of the line surveyed.

High data quality

Combined with the synchronization of accurate positional data, each survey line, or 'swath', can be precisely aligned to adjacent swaths. This optimizes the data gathering process for efficient subsurface mapping.

Raptor

Series Overview and Features

Raptor - Cart

Allows the arrangement of up to 8-channels (450 MHz) in an array assembly that can be configured for use in a matter of minutes.

The low weight and smart design simplifies transportation and storage and makes the system manageable by one person.

Easy to maneuver in narrow areas where you normally can't use a 3D GPR Array.

Stable and robust GPS mounting gives accurate positioning.

Raptor - Vehicle Carrier

The robust and stable construction enables simple connection to suitable survey vehicles for fast data collection in normal traffic flows as posted speed limits.

Collect up to 18-channels (450 MHz) in a single swath with one pass to reduce time and costs.

Tailor your own solution

The modular design and plug and play configuration make it easy to design any numbers of channels from a minimum of 4, up to a maximum of 30, or bespoke user-defined solutions.

This allows you to tailor your own array arrangement and carrier solution to meet your specific needs.

Talon acquisition and control software offers a simple yet effective interface to manage the quality of data collection and external positioning data.

Raptor
Antenna Series

Specification	Raptor-45	Raptor-80
Antenna Centre Frequency	450 MHz	800 MHz
Antenna Footprint	165 x 230 mm	110 x 150 mm
Antenna Weight	1860 g	950 g
Antenna Polarization	VV or HH	VV or HH
System Cart* • Number of channels • Scan width • Dimensions • Weight • Power consumption	 8 58 cm 90 x 70 x 25 cm 42 kg 48 W	 12 60 cm 90 x 70 x 25 cm 36 kg 72 W
System Vehicle • Number of antennas • Scan width • Dimensions • Weight • Power consumption	 18 140 cm 190 x 80 x 60 cm 87 kg 108 W	 28 140 cm 190 x 80 x 60 cm 77 kg 168 W
Max System Configuration	30 channels	30 channels
Environmental	IP 65	IP 65

About ImpulseRadar

We are a new, but fast-growing company, focusing on combining our experience with state-of-the-art technology to develop user-friendly GPR instruments.
As industry professionals, we have been influential in bringing to market innovative GPR solutions that have driven paradigm shifts in the application of this effective non-destructive technology.

ImpulseRadar´s cutting-edge GPR solutions are built solely on the latest Real-Time Sampling (RTS) technology platform. They are incomparably fast, offer exceptional bandwidth and dynamic range, and are flexible to meet your specific needs. Visit us today to learn how we can save you time and increase your productivity.

CONTACT US TODAY

info@impulseradar.se

ImpulseRadar AB
Storgatan 78
SE-939 32 Malå
Sweden

+46 953 10008

Authorized representative: