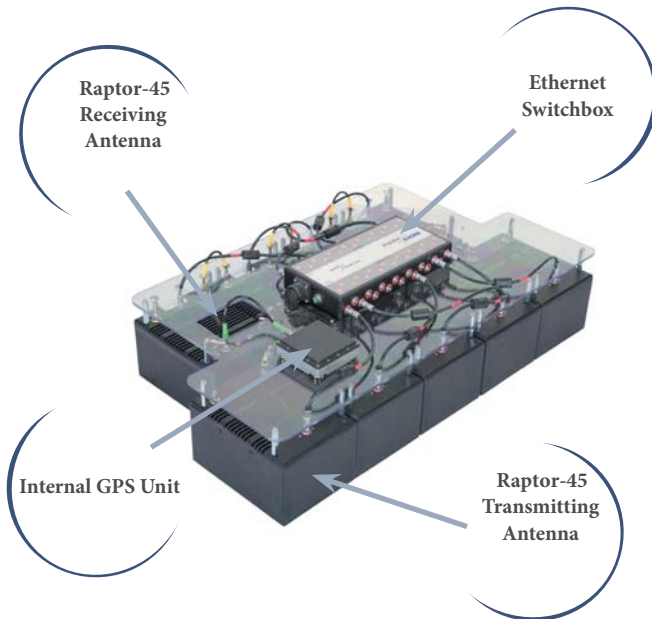


**Cutting-edge 3D GPR Array solution for  
efficient subsurface imaging**

**The fastest high quality 3D GPR**





### High-Speed 3D GPR Array

ImpulseRadar Raptor<sup>®</sup> 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 of GPR.

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

### 450 MHz or 800 MHz

The Raptor system covers a wide range of application areas and can be configured with either 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 at posted speed limits.

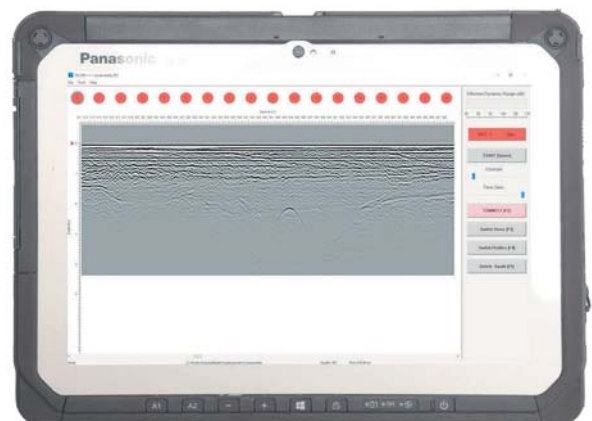
Collect up to 18-channels (450 MHz) in a single swathe with one pass to reduce time and costs.

### Tailor your own solution

The modular design and plug-and-play configuration makes it easy to arrange any number 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.





Specification	Raptor-45	Raptor-80
Antenna Centre Frequency	450 MHz	800 MHz
Antenna Footprint	165 x 230 mm	110 x 150 mm
Antenna Weight	2 kg	1 kg
Antenna Polarization VV and HH		
System Cart*		
• Number of channels	8	12
• Scan width	58 cm	60 cm
• Dimensions	90 x 70 x 25 cm	90 x 70 x 25 cm
• Weight	42 kg	36 kg
• Power consumption	48 W	72 W
System Vehicle		
• Number of antennas	18	28
• Scan width	140 cm	148 cm
• Dimensions	190 x 80 x 60 cm	190 x 80 x 60 cm
• Weight	87 kg	77 kg
• Power consumption	108 W	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

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