



Detect, Avoid, and Map Underground Utilities

The PinPointR is a dedicated Ground Penetrating Radar (GPR) utility locator instrument, designed to maximize your in-field productivity and decision-making capabilities. Utilizing our proprietary real-time sampling (RTS) based antenna technology, the PinPointR delivers incredible bandwidth and resolution, without speed restrictions, all controlled wirelessly via an intuitive Android-driven user interface.

The PinPointR Difference

To maximize in-field productivity, the PinPointR includes the features and functionality you use day to day in real-world scenarios. Consequently, PinPointR offers complete flexibility for collecting either single line profiles, or multi-line projects with user-defined lengths and profile spacing to suit actual site conditions and your specific utility locate objectives.

Features and advantages

- **ImpulseRadar Real-Time Sampling (RTS) based antenna technology**

Quick, clear and dependable locates to maximise in-field productivity and decision making

- **Dual channel operation 400 MHz (LF) and 800 MHz (HF)**

One-pass locates with full depth range improves locating efficiency and decision making

- **Wireless data acquisition**

No cables to be lost or broken which simplifies set-up and in-field productivity, and minimises operational servicing costs

- **Android-driven user interface**

Flexibility in choice of acquisition device



- **7-hour battery life**

Low power consumption to extend working time

- **Internal GPS**

Geo-referenced data as standard

- **Supports external GPS**

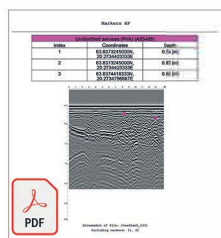
Compatible with DGPS or RTK-GPS for higher accuracy geo-referencing for mapping/reporting purposes

- **Automatic utility report generation**

Simplifies report generation and proves site visit for job/ ticket sign-off

IPR Android App

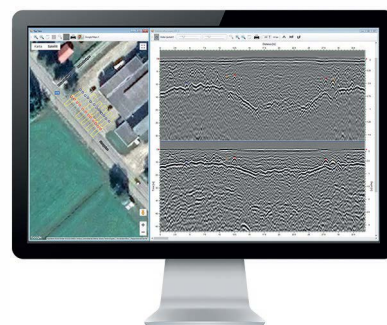
The Android data acquisition App includes industry standard marker functionality (APWA, AS5488, or user-defined) to enable users to mark-up data in the field to correlate with the actual paint marks they put on the ground and any subsequent field sketches or report outputs.



CrossPoint Visualisation Software

PinPointR data files are compatible with CrossPoint software for Windows-based processing, interpretation, and analysis of GPR data.

The user-friendly interface provides practical tools for filter assignment, data processing, marking points of interest within radar profiles, visualizing markers on support maps, and exporting markers for geo-referencing within suitable CAD/GIS platforms.



Technical specification

Weight	20 kg (Cart, Antenna, and display)
Battery	Li-Ion 12V / 1.3 A. Up to 7-hours operating time
Operating Temperature	- 20°C to +50°C / - 4°F to +122 °F
Warranty	2 years
Regulatory	CE, FCC & IC approved

ImpulseRadar products are under continuous development and we reserve the right to change specifications at any time and without prior notice. You may verify product specifications at any time by contacting our headquarters via our website.



ImpulseRadar PinPointR

ANTENNA	
Technology	ImpulseRadar real-time sampling
Antenna type	PinPointR dual-channel
Centre frequency	CH-1: 400 MHz (LF) / CH-2: 800 MHz (HF)
Channel activation	CH-1 & CH-2 (LF & HF)
Signal to noise ratio (SNR)	>100 dB
Significant/useful number of bits	>16 bit
Scans/second	>800
Survey speed	> 130 km/h @ 5 cm point interval
Time window	388 ns (LF) / 194 ns (HF)
Bandwidth	>120%, fractional, -10 dB
Acquisition mode	Wheel, time or manual
Positioning	Wheel encoder, internal DGPS, external GPS (NMEA 0183 protocol)
Power supply	12 V Li-Ion rechargeable battery, or ext. 12 V DC source(optional)
Power consumption	1.3 A
Operating time	7 hours
Dimensions	444 x 355 x 194 mm
Weight	6.35 kg (including battery)
Operating temperature	-20° to +50°C
Environmental	IP65
Regulatory certification	CE, FCC & IC approved
CART	
Dimensions (folded for transport)	870 x 540 x 370 mm
Dimensions (when in use)	1010 x 540 x 1030 mm
Wheels	4 x Ø315 mm
Weight	12.8 kg (Cart only) ¹ , 20 kg (Cart, Antenna & display) ²
USER INTERFACE	
Display	720 x 1280 pixel or better
Operating system	Android™ (>ver. 5 Lollipop) or later
Memory	2.7 GB SDRAM or better
Processor	Intel Atom x5-Z8550, Quad-core 2.3 GHz Krait 400 or better
Recommendation	Panasonic Toughpad FZ-A2 (or equivalent)

¹ Cart, skid plate and display holder

² Cart, skid plate, antenna, display holder* and display (* 10" as per recommended Panasonic Toughpad FZ-A2)

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