

PLT600 Data Sheet

A new handheld Ground Penetrating Radar (GPR) system (Fig.1.), designed to be customisable to suit your application with real time sampling technology. This is a compact (28x 25 x20cm) and lightweight Single high frequency system which uses a 600MHz antenna. Ideal for use in scanning walls in civil infrastructure and bridges to image the internal structure layering, rebar position, imaging any voids/ fractures or cavities which need to be infilled, assessing the stability of the structure.



Fig.1 Image of the PLT600 Handheld High Frequency GPR system. The System is produced as the standard handheld meter (Left) and the Ice edition (right) which can be mounted on a vehicle (Image Courteously provided by Impulse Radar)

The system is powered by an internal LI battery which can be charged up prior to use, and will last a full survey day. An odometer can be attached to the system to accurately record the measurement distance along each trace. As with all of the other Impulse Radar units the PLT600 has a standard internal GPS system to time stamp the data and provide the position data. However, if a more accurate GPS is required to <1cm accuracy the operator can use the external GPS adapter cable (Lemo connector to RS232) provided to connect their own DPS or RTK GPS system with the Unit (Please note the operator should also have their own GPS adapter cable with their GPS to connect to the RS232 port).

The PLT600 can be purchased as the standard handheld model or the Ice model which is encased in a foam lined peli case for use in frost/glacial areas for imaging through ice (imaging snow thickness), this can also be attached to the back of a vehicle for rapid/high resolution data acquisition. Both of these models are designed for high resolution shallow data acquisition and are used in Civil investigations, archaeology, military, road/bridge inspections.

The PLT600 system uses an android driven interface, this allows the user to connect their android device wirelessly via WIFI to the unit and run the Viewpoint acquisition software to control and collect data. The data can then be exported and analysed using a post processing software such as Crosspoint or GPR slice.

Applications:

- ICE/ Snow thickness
- Archaeology
- Civil Infrastructure
- Shallow Subsurface Imaging
- High speed shallow data acquisition

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	28 cm x 25.5 cm x 20 cm	0.4 kg; 7.2kg (ice edition)

Technical Specifications

Frequency Antenna (Standard):	600 MHz (Single Channel Operation)
Warranty:	2 years
Regulatory:	CE, FCC & IC approved; CE & IC approved (Ice Edition)
GPS:	Internal GPS (Optional) to Georeference the data as standard ; Supports an external GPS either a DGPS or RTK-GPS
Data Aquisition:	Wireless, via the Viewpoint app, data is stored on the internal memory on your android device
User Interface:	Android device
Battery:	LI Battery, with an 8 Hour battery life (low power consumption); has an internal battery ideal for use in more harsh environments
Record Length:	.