

## Crossover1760 (CO1760) Data Sheet

As with all of the crossover GPR systems the CO1760 can be used in a variety of conditions and can be configured as a single channel (low or high frequency) or dual channel depending on your application. Its middle range antenna frequencies allow the operator to apply/ use the ground penetrating radar system in a variety of environmental, archaeological, UXO and civil projects. Used to image the near surface at high resolutions, at a medium depth range. Similar to the C0480 the CO1760 is available in a cart and sled configuration, enabling the user to access restricted, uneven terrain and other surface types, whilst maintaining an easy to use comfortable design which you can adjust / transport within the field.

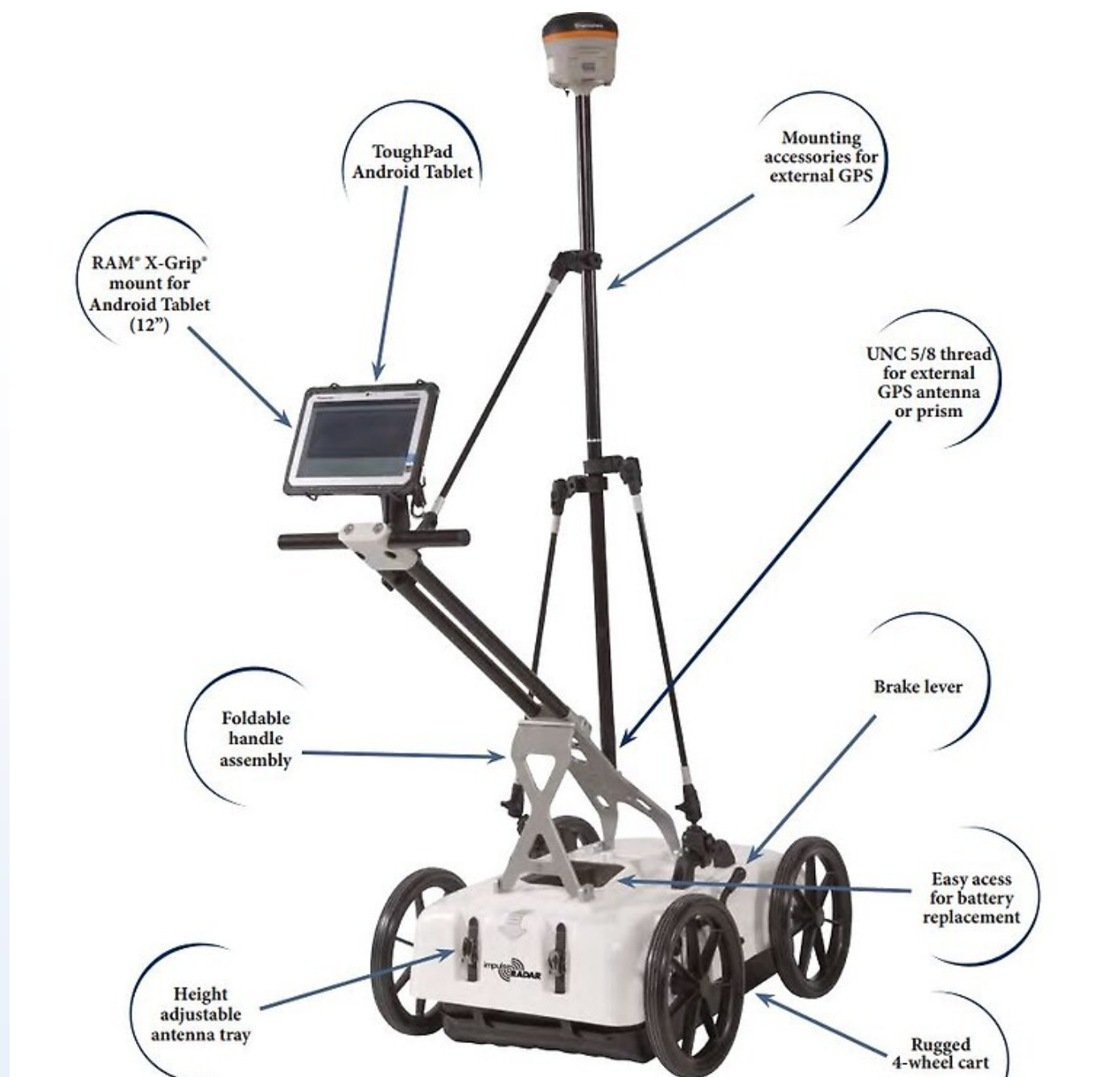


Fig.1 Depicts all of the components of the CO1760 in the cart/push configuration. (Image courteously provided by Impulse Radar)

## Features

- . RTS- Based Technology
- . Dual-Channel (LF and HF)
- . Android driven logger/interface
- . Wireless data collection & Internal data security
- . Integrated GPS
- . 7 Hour Battery life with no survey speed limits

## Typical Applications

. Archaeology . Environmental Assessment . Forensics . Geological investigation (e.g. lithostratigraphic mapping) . Military or Forensic use . UXO and deep utility detection

## Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	695 mm x 445 mm x 205 mm	9.5 kg (inc battery)

## Technical Specifications

<b>N.o Channels:</b>	2
<b>Center Frequency:</b>	170Mhz (Channel 1, Low Frequency) & 600Mhz (Channel 2, High Frequency)
<b>Bandwidth:</b>	> 120%, fractional -10 dB
<b>Signal to noise ratio (SNR):</b>	>100dB
<b>N.o. Scans per second:</b>	>800
<b>Survey Speed:</b>	>130km/h @5cm point interval
<b>Time window:</b>	1050 ns (LF) / 263 ns (HF)
<b>Acquisition/Positioning:</b>	Wheel, time or manual; Wheel Encoder, Internal DGPS and External GPS (NMEA 0183 protocol)
<b>Power Supply and Consumption:</b>	12V Li-ion rechargeable battery (an external 12v DC source can also be provided); 1.3A
<b>Operation:</b>	7 Hours
<b>Weight and dimensions (inc</b>	9.5kg; 695 x 445 x 205 mm

**battery)- Antenna:**

**Operating Temperature:** -20°C to +50°C

**Environmental and Regulatory Certification:** IP65, CE,FCC

**Cart dimensions (when in transport):** 920 x 640 x 390 mm, 25.7kg (cart, antenna and display)

**Display:** 720 x 1280 pixel or better

**Operating system and memory:** Android (>ver. 5 Lollipop) or later; 2.7GB SDRAM or better

## Videos

ImpulseRadar Fitting the CrossOver Measuring Wheel & Battery to the CrossOver GPR antenna.

[https://www.youtube.com/watch?v=ZmQbAB\\_mKBQ](https://www.youtube.com/watch?v=ZmQbAB_mKBQ)

ImpulseRadar Folding the CrossOver Cart ground penetrating radar

<https://www.youtube.com/watch?v=A1qDDMi8ewM>