

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.

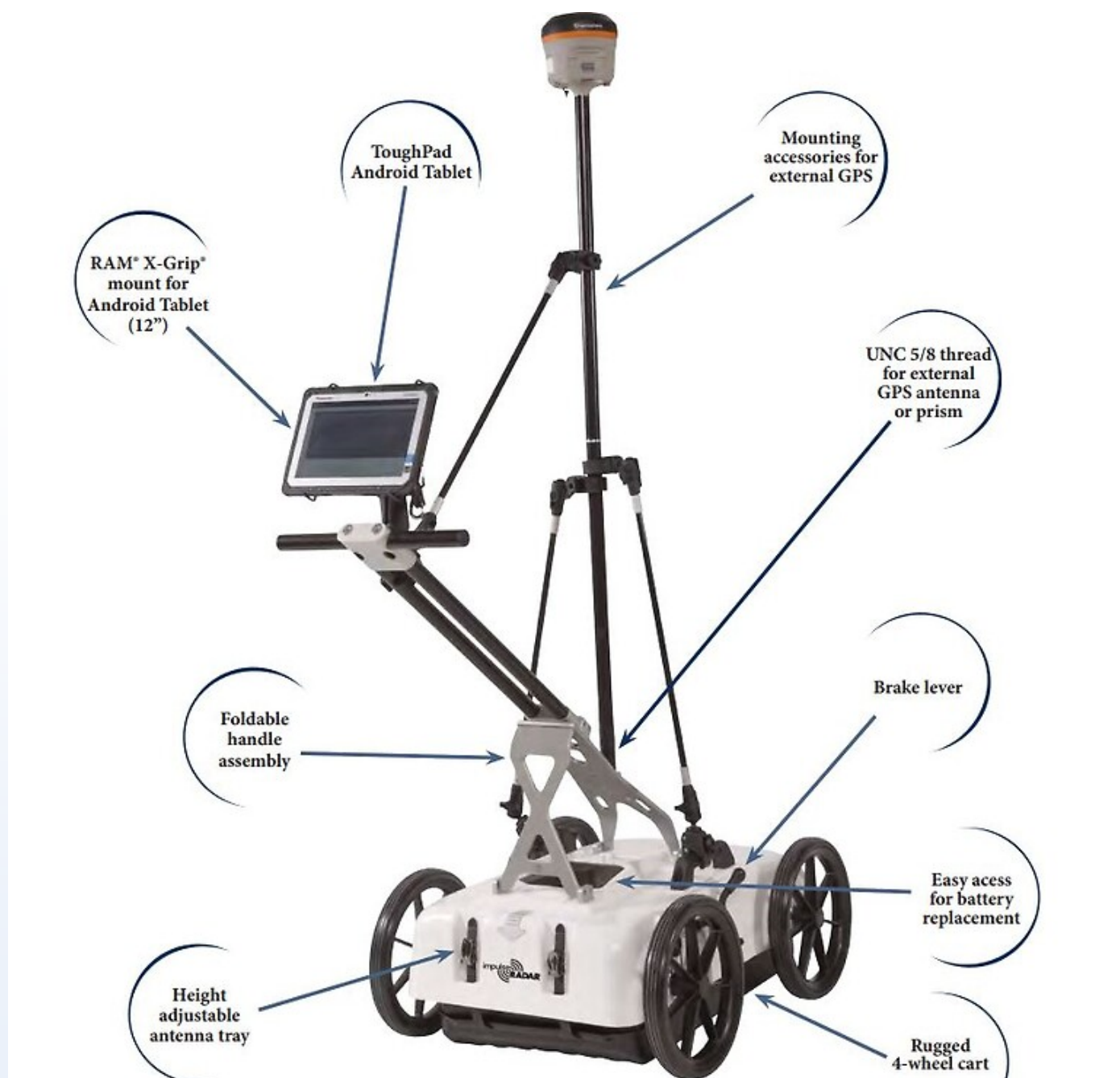


Fig.1 Depicts all of the components of the CO1760 in the cart/push configuration. (Image courteously provided by Impulse Radar)

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

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

ImpulseRadar Folding the CrossOver Cart ground penetrating radar

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