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CrossOver730- (CO730) Data Sheet

The CO730 is the largest system within the crossover series and is only available in a pulling arrangement, however the design can be adjusted and re-customized to suit the comfort of the user. The system uses low frequency antennas 70MHz (Lowest Frequency) to 300MHz (Highest Frequency) to prospect to deeper levels beneath the surface. Each of the channels are available as a single channel to which can be upgraded to dual channel system. The design of this GPR product allows the user to to collect data in rough, barely accessible terrain throughout the field working day, covering large survey areas. The C0730 can be used in a wide variety of applications due to its adaptable design.



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Fig1. Shows the set up and configuration of the CO730 low frequency system only available as a pulling configuration which can be customized. 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

. 6 Hour Battery life with no survey speed limits

Typical Applications

. Archaeology

. Environmental Assessment

. Geological investigation (e.g. lithostratigraphic mapping)

. Military or Law Enforcement

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	960 mm x 760 mm x 270 mm	20.2 kg

Technical Specifications

N.o Channels:	2
Centre Frequency:	70Mhz (Channel 1, Low Frequency) & 300Mhz (Channel 2, High Frequency)
Bandwidth:	>120%, fractional, -10 dB
Signal to noise ratio (SNR):	>100 dB
N.o. Scans per second:	>800
Survey Speed:	> 130 km/h @ 5 cm point interval
Time window:	2500 ns (LF) / 625 ns (HF)

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Acquisition/Positioning:	Wheel, time or manual; Wheel encoder, internal DGPS, external GPS (NMEA 0183 protocol)
Power Supply and Consumption:	12V Li-ion rechargeable battery (an external 12v DC source can also be provided); 1.5A
Operation:	6 Hours at 1.5A and 8 Hours at 1.2A
Weight and dimensions (inc battery)- Antenna:	960x 760 x 270 mm; 20.2kg
Operating Temperature:	-20°c to + 50°c
Environment and Certifications:	IP65, CE and FCC
Display:	720 x 1280 pixel or better
Data Logger:	Android™ (>ver. 5 Lollipop) or later; 2.7 GB SDRAM or better
Processor:	Intel Atom x5-Z8550, Quad-core 2.3 GHz Krait 400 or better

Gallery



Crossover 730 odometer wheel

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Crossover 730 including GPS



Crossover 730 field photo showing the typical setup and

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operation

Videos

ImpulseRadar Fitting the CrossOver Measuring Wheel & Battery to the CrossOver GPR antenna.
https://www.youtube.com/watch?v=ZmQbAB_mKBQ