



Chaser XR

The all-in-one and one-for-all GPR solution for subsurface profiling.



SCAN SMARTER. GO DEEPER. BUILT ON “EsT” TECHNOLOGY

CHASER XR SETS A NEW BENCHMARK IN GPR PERFORMANCE, OFFERING UNMATCHED **DEPTH PENETRATION AND ULTRA-HIGH RESOLUTION IN ONE SYSTEM**, WITH INDUSTRY-LEADING 80–1500 MHZ FREQUENCY RANGE.

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Chaser XR is the new powerful GPR solution setting a new standard in subsurface investigation. Expanding the power of EsT technology to geophysical surveying, Chaser XR is the all-in-one and one-for-all GPR antenna featuring the most extended inspection range on the market (80 MHz - 1500 MHz).

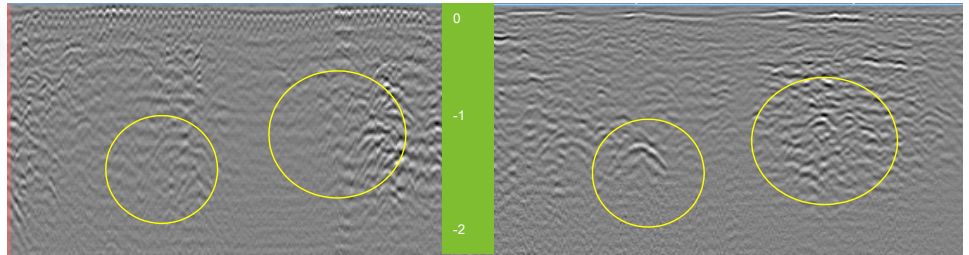
EsT | Equalized scrambled Technology: a next level performance in subsurface profiling.

Thanks to EsT, Chaser XR is able to offer unparalleled GPR performance maximizing subsurface profiling to a deeper range compared to any other solution available on the market.

This technology is able to exploit the entire radiating performance of the antenna for full control of the GPR signal, performing the best noise rejection and capturing both the lower and higher frequencies for an extended depth range and an ultra-high resolution.



A.



HH Config

VV Config



One-For-All: operates across different surveying scenarios



All-In-One: designed for the highest flexibility in applications



Maximum Return on investment: productivity and cost savings

Chaser XR is a unique GPR solution covering the usual performance of multiple systems with a single device. A sole antenna fit for different geophysical surveying scenarios: from environmental assessment to archaeological, manmade structures, ice, tunnel and snow investigations.

Chaser XR is a compact light-weight GPR solution designed for maximum portability and ease of use boasting the small size of 41 x 41 x 19 cm and the lightest weight, only 4.8kg (without batteries). This double frequency antenna offers the most extended inspection range ever seen before (80MHz - 1500 MHz).

With Chaser XR, geophysical surveys' productivity is enhanced as this single device allows to successfully perform across different environments with no additional costs. Leveraging the different product configurations available (Lite Pack, Drag Kit or Positioning Kit), the system can be easily managed by one operator.



A.



B.

One solution for multiple scenarios: Chaser XR's extended inspection range covers different geophysical surveying applications ranging from environmental assessment to tunnel inspection.

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EsT TECHNOLOGY

- Extended depth range and high resolution
- Unparalleled control of the GPR signal
- Patented technology

ANTENNA SPECIFICATIONS

- Sensor frequency: 80 MHz-1500 MHz
- Size: 41x41x19 cm (16x16x7.4 in.)
- Weight: 4.8 kg (10.6 lb) without batteries
- Polarization: Configuration HH and VV
- Connection: LAN or WiFi
- Compliant with: CE, FCC, IC

NON-STOP PERFORMANCE

- Battery life 8h
- Hot swap technology for power supply

GREATER EFFICIENCY

- One system fits many surveying scenarios
- Most extended inspection range on the market
- Compact and light-weight design

CART SPECIFICATION

- Foldable Dimensions: 750x625x420 mm (30x25x17 in)

CART ACCESSORIES

- Off-road wheels kit available (38 cm/15 in)
- GNSS pole support kit
- Tablet holder
- Hard transportation box
- Weight: 20 kg/ 44 lbs

Available in different configurations:

- **Lite Pack** (Figure A.)
- **Drag Kit** (Figure B.)
- **Positioning Kit** (Figure C.)
- **Hand-push cart** (Figure D.)

No-limit to data collection and easy management.

Chaser XR employs Hexagon's latest software technology solutions for data collection and post processing: **uMap** and **IQMaps**.

The on-field software **uMap**, allows for faster collection and improved management of data with an easy-to-use interface that even unskilled users can comfortably manage.

IQMaps is IDS GeoRadar's post-processing software application for the advanced analysis of GPR data, enabling fast interfacing between the user and GPR data itself.

80MHz

1500MHz

Chaser XR

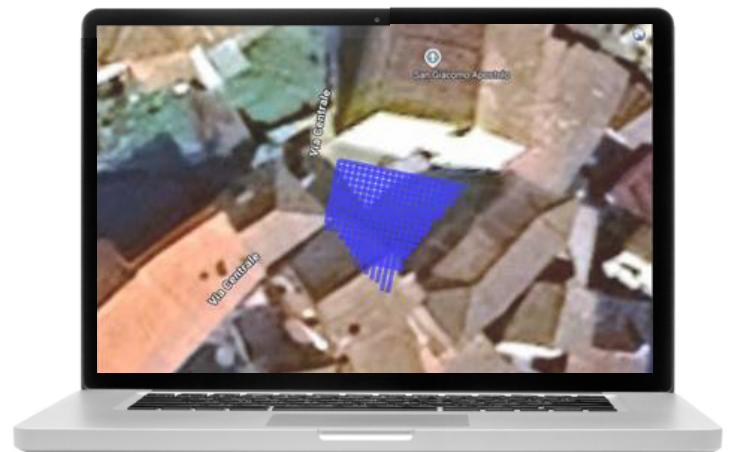
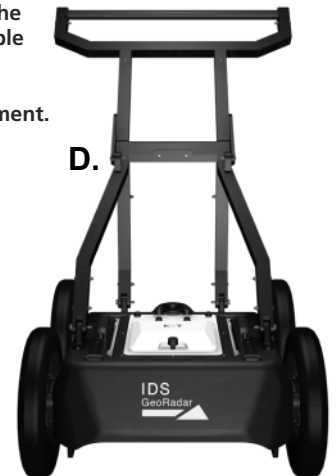
1 UNIT < 5 kg

3 UNITS > 20 kg

4 UNITS > 20 kg

5 UNITS > 20 kg

Chaser XR, thanks to its extended depth range, covers the usual performance offered by the combination of multiple systems on the market: one solution leveraging EsT technology for an optimized flexibility across different surveying scenarios and the maximum return on investment.



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Technical Specifications:

Features	Specification				
Inspection Range	80 MHz – 1500 Mhz				
Technology	EsT – Equalized scrambled Technology				
Size	41X41x19 (cm) 16.1x16.1x7.5 (in.)				
Weight	4.8 (Kg) 9.6 (lbs)				
Operating Temperature	-20 °C to +50 °C (-4 °F to 122 °F)				
Certification	CE, UKCA, FCC, IC				
No of channels	2				
Scan Rate	Up to 66000 scan/s				
Polarization	Configuration: HH and VV				
Positioning	Encoder and GNSS; external GPS and TPS				
Power Consumption	Acquisition: 16W – Stand-by:12W				
Max Operating Time	8 h (can be extended by hot swap capability)				
Cart Technical Features					
Dimension (folded for transport)	750x625x420mm				
Dimension (in use)	30x25x17 inch				
Weight (Cart and Antenna)	<table border="0"> <tr> <td>14 kg (only cart)</td> <td>31 lbs (only cart)</td> </tr> <tr> <td>20kg (cart and antenna)</td> <td>44 lbs (cart and antenna)</td> </tr> </table>	14 kg (only cart)	31 lbs (only cart)	20kg (cart and antenna)	44 lbs (cart and antenna)
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Wheels	<table border="0"> <tr> <td>4XØ310mm (default)</td> <td>4XØ12 inch (default)</td> </tr> <tr> <td>4xØ380 mm (optional)</td> <td>4xØ15 inch (optional)</td> </tr> </table>	4XØ310mm (default)	4XØ12 inch (default)	4xØ380 mm (optional)	4xØ15 inch (optional)
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Software Specifications					
uMap – Acquisition software	<ul style="list-style-type: none"> Automatic calibration for an easy and quick start-up Visualization and storage of radar data Real-time visualization of radar tomography (time slices) Connection with NMEA positioning device Multilanguage support Metric and Imperial units Export, store, share and access data on major Cloud service providers for a streamlined workflow in utility detection Support for data acquisition without wheel encoder 				
IQMaps – Processing Software	<ul style="list-style-type: none"> Advanced 3D processing software with a direct export link to AutoCAD Export, store, share and access data on major Cloud service providers for a streamlined workflow in utility detection 				