

Chaser XR

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



Extending the power of **EsT technology**
to geophysical surveying.

IDS GeoRadar: The leader in multi-frequency and multi-channel
Ground Penetrating Radar

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Chaser XR

All-in-one and One-for-all Ground Penetrating Radar

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.



ONE-FOR-ALL: OPERATES ACROSS DIFFERENT SURVEYING SCENARIOS

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.



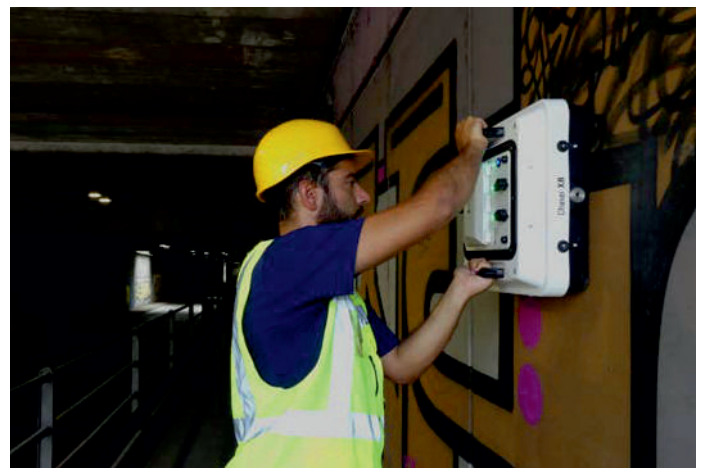
ALL-IN-ONE: DESIGNED FOR MAXIMUM FLEXIBILITY

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).



MAXIMUM RETURN ON INVESTMENT: PRODUCTIVITY AND COST SAVINGS

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.



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

EsT TECHNOLOGY

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

SYSTEM SPECIFICATIONS

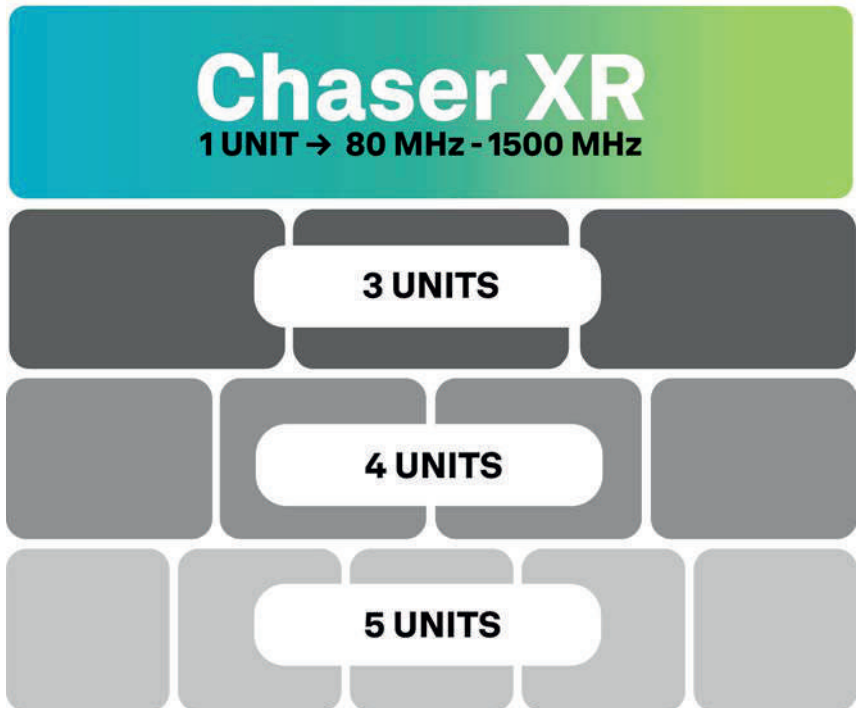
- Sensor frequency: 80 MHz-1500 MHz
- Size: 41x41x19 cm (16x16x7.4 in.)
- Weight: 4.8 kg (10.6 lb) without batteries
- Polarization: Configuration HH and VV
- Connection: LAN or WiFi
- Environmental: IP65
- Compliant with: CE, FCC, IC

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



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.



Chaser XR is available in different product configurations:

- Lite Pack (Figure A.)
- Drag Kit (Figure B.)
- Positioning Kit (Figure C.)

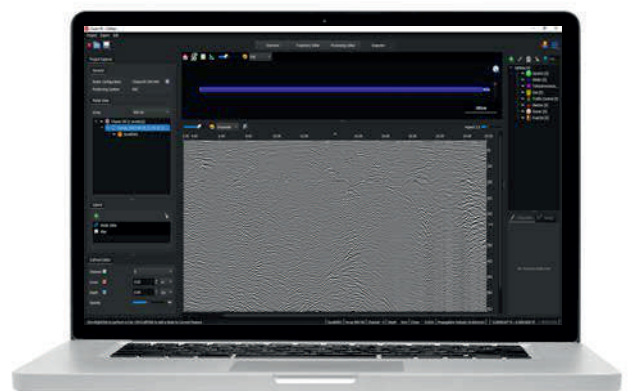


No-limit to data collection and easy management.

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.



Chaser XR



TECHNICAL FEATURES

Sensor Frequency	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)
Environmental Rating	IP65
Certification	CE, UKCA, FCC, IC
N° 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)

SOFTWARE SPECIFICATIONS

uMap – Acquisition software

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

IQMaps – Processing Software

Export, store, share and access data on major Cloud service providers for a streamlined workflow in utility detection
 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





IDS GeoRadar

IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost-efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 23,000 employees in 50 countries and net sales of approximately 4.3bn EUR.

Learn more at hexagon.com and follow us @HexagonAB.



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