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GEOPHYSICAL EQUIPMENT RENTAL CATALOGUE

Technologies include Seismic (Land, Borehole, Marine), Electromagnetics (EM), Resistivity (2D/3D/VES), GPR, Land / Marine Magnetometry, Concrete NDT



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GEOPHYSICAL EQUIPMENT RENTAL CATALOGUE

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geonics EM-31 MK2	<ul style="list-style-type: none"> Mapping Ground Conductivity (to 6.0m) Mapping locating underground Tanks, Waste tanks and buried Ferrous targets (to 6.0m) Contaminated Soils mapping and Contaminant progression monitoring mapping Mapping and locating deep Pipes and Sewer pipes where GPR fails. Investigating and mapping buried treasures / targets to depth 6.0m or 20ft where GPR fails. Archaeological investigation / Studies Product data sheet link: <ul style="list-style-type: none"> https://geonics.com/html/em31-mk2.html https://www.exiusa.com/uploads/docs/Geonics%20catalogue.pdf 	\$ 265	\$885	3 Days (\$ 2,655)
		Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping
Software and Accessories	<ul style="list-style-type: none"> Data Acquisition and Processing Software EM31-MK2, EM31-SH, EM31, EM31alg, EM31Salg, MK2, DAT31, DAT31W 		\$145	\$ 435
	<ul style="list-style-type: none"> Data hemisphere GPS with external antenna, providing the most accurate data collection. 		\$ 85	\$ 255



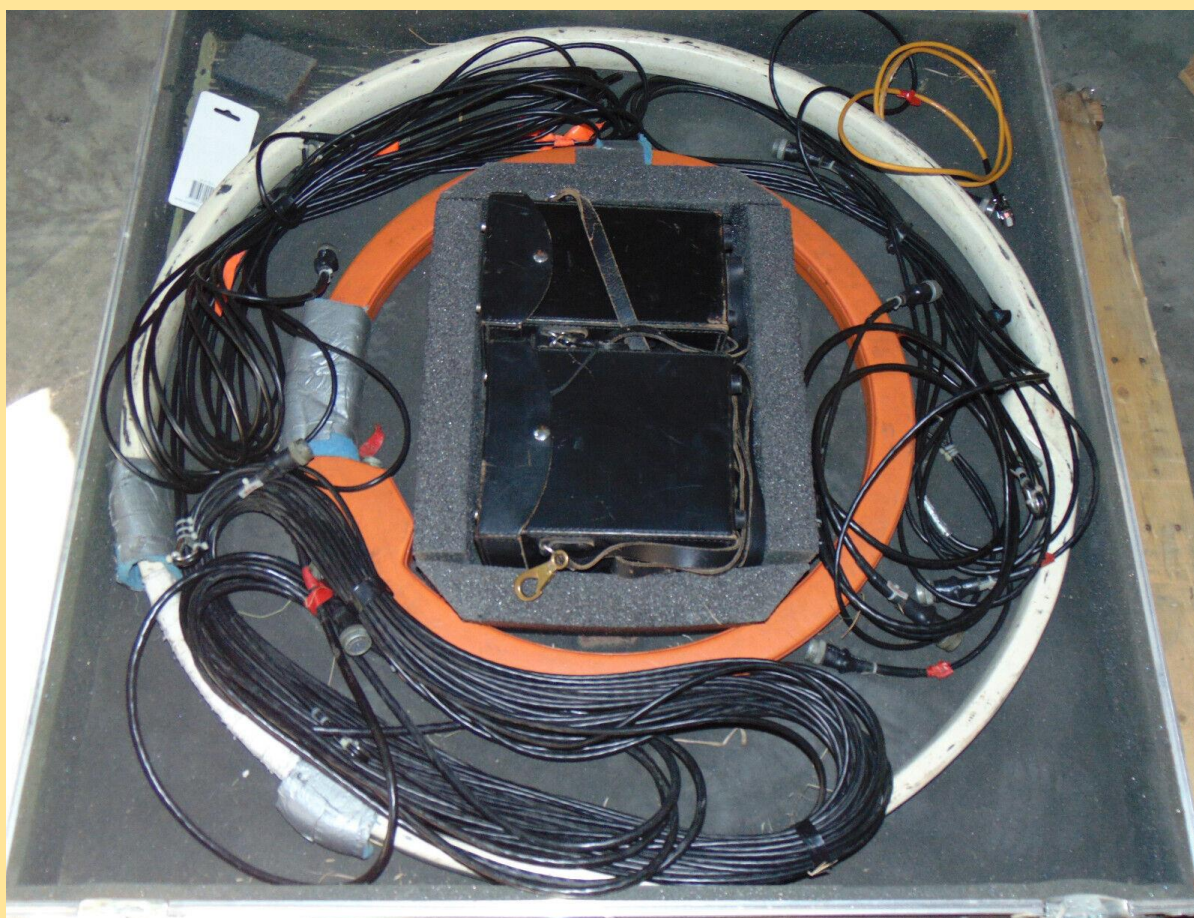
Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geonics EM-38 MK2 With EM-38, Archer Field PC and hemisphere GPS with external antenna, providing the most accurate data collection.	<ul style="list-style-type: none"> Mapping Ground Conductivity (to depth 1.5m) Measures the apparent bulk soil electrical conductivity (ECa) Agricultural soil Water mapping and monitoring for decision support in Cropping and Crop management. EMI provides a measure of the soil electrical conductivity of the soil profile, which is affected by variation in salt, clay content, organic matter, temperature, soil moisture. Mapping and locating shallow underground Tanks, Waste tanks, buried Ferrous targets (to depth 1.5m) Mapping conductivity at depth 0.75 m in the horizontal dipole mode Contaminated Soils mapping and Contaminant progression monitoring mapping (to depth 1.5m) Mapping and locating shallow Pipes and Sewer pipes. Investigating and mapping buried treasures / targets to depth 1.5m. Product data sheet link: https://geonics.com/html/em38.html https://www.exiusa.com/uploads/docs/Geonics%20catalogue.pdf	\$ 265 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 545 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days (\$ 1,635) Excluding GST (tax), Dispatch Shipping, and Return shipping
Software and Accessories	<ul style="list-style-type: none"> EM38RT, EM38, EM38alg, DAT38RT, DAT38W Data Acquisition and Processing Software hemisphere GPS with external antenna, providing the most accurate data collection. 		\$115 \$ 85 Excl. GST	\$ 345 \$ 255 Excl. GST (tax),



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geonics EM-34	<p>The EM34-3 uses three intercoil spacings - 10, 20 and 40 m - to provide variable depths of exploration down to 60 metres</p> <p>EM34-3 is a fast, simple to operate, cost-effective instrument for the engineering geophysicist, geologist and hydrogeologists alike and has been particularly successful for:</p> <ul style="list-style-type: none"> • Groundwater explorations in all hydrogeological systems (Ingenious basement rock, Sediments and Veins in Bedrock) and mapping deeper groundwater reserves for municipal, irrigation and industrial production. • Environmental mapping contaminant plumes and monitoring contaminant progression • Salinity water quality mapping (acute increase in Conductivity) • Exploration of potential sites for earth occurring Construction materials like Clay and Sand • Exploration of Shallow mineralisation deposits (depth 60m) <p>Product data sheet: https://geonics.com/html/em34-3.html https://www.aseq.org.au/sites/default/files/EM34-3_Brief.pdf https://georeva.eu/wp-content/uploads/2021/02/Catalogue-Geonics_compressed-1.pdf</p>	\$ 265	\$ 985	3 Days (\$ 2,955)
		Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping
Software and Accessories	<ul style="list-style-type: none"> • EM34-3RT, EM34, EM34alg, DAT34, DAT34-3, DATW Data Acquisition and Processing Software • Hemisphere GPS with external antenna, providing the most accurate data collection. 		\$115	\$ 345
			\$ 85 Excl. GST	\$ 255 Excl. GST (tax),

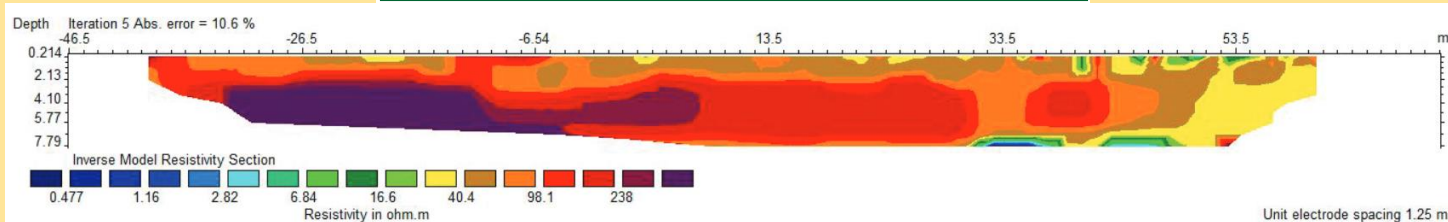
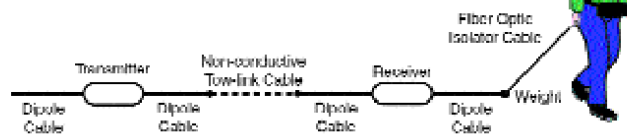


Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geonics EM34-3XL	<p>In regions of particularly high cultural and/or atmospheric noise, the EM34-3XL - including increased transmitter power and a larger transmitter coil - improves the signal-to-noise ratio by a factor of 10 at the 40 m spacing, and by a factor of 4 at the 10 and 20 m spacings.</p> <p>https://geonics.com/html/em34-3.html https://www.aseg.org.au/sites/default/files/EM34-3_Brief.pdf</p> <p>The EM34-3XL was developed to provide greater signal detection ability at the longer spacings. The XL employs a larger coil ~1.0m in diameter and it weighs about 1.5kg more than the standard coil.</p> <p>The EM34-3 includes connectors for an analog signal output, as well as an input which can be used with a rechargeable battery option. Digital signal output, required for data collection with the DL600/DAS70 system, is available as an option for all models of the EM34-3.</p> <p>DIMENSIONS</p> <p>Rx Console: 19x13.5x26 cm Tx Console: 15.5x8x26 cm Rx & Tx Coil: 63 cm diameter EM34-3XL Tx Coil: 100 cm Case: 27.5x75x75 cm</p> <p>WEIGHTS</p> <p>Instrument: 20.5 kg; XL: 26.5 kg Shipping: 43 kg; XL: 51 kg</p>	\$ 295	\$ 1,155	3 Days (\$ 3,465)
		Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geometrics OHMAPPER Electrical Resistivity Mapping Capacitively-coupled Towable. Electrical Resistivity Tomography (ERT) Imaging system	TOWED ELECTROMAGNETIC BASED ELECTRICAL RESISTIVITY TOMOGRAPHY MAPPING EQUIPMENT (GEOMETRICS OHMAPPER) https://geometrics.com/wp-content/uploads/2018/10/OhmMapper_Spec_Sheet.pdf https://www.aseg.org.au/sites/default/files/OhmMapBro.pdf Advantages over traditional multi-electrode ERT <ul style="list-style-type: none"> Designed to ease Engineering and Environmental Geophysical investigations. Acquire shallow-to-medium depth Electrical Resistivity Tomography (ERT) data without the laborious drudgery of planting multi-electrode steel stakes and cables. No metal electrodes and switching cables required. Cost-effective Single Person Operation (No need for multiple field crews) Acquire ERT data simply, quickly, lightly and continuously. Rapid Deployment, Fast Data Acquisition Optimized for Use in Highly Resistive Areas (permafrost, deserts, sand, snow, resistive geology, even roads and pavement) Low Power Consumption Ease and quick system mobilisation / demobilization 	\$ 295	\$ 1,262	3 Days (\$ 3,792)
	Unique Applications <ul style="list-style-type: none"> Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Shallow Depth to Bedrock profiling and mapping Environmental studies, Contaminant plume mapping of contaminated Soils and shallow Groundwater Exploration of Industrial Mineral exploration surveys mainly (exploration of Quarry rock deposits, Sand deposits, Clay deposits) Investigation of Sinkholes and Ground subsidence 	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping

Here's How It Works: A transmitter electrifies two coaxial cables (transmitter dipole) with an AC current. Current is thus coupled to the earth through the capacitance of the cable. A matched receiver, automatically tuned to the transmitter frequency, measures the associated voltage picked up on the receiver's dipole cables. The receiver then transmits a voltage measurement, normalized to current, to the logging console. After downloading to a computer the DataMapper software calculates apparent resistivity by applying a geometric correction factor suitable for the array being used.



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
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GEOMETRICS

OhmMapper – Resistivity Mapping

- No Metal Electrodes Required
- Single Person Operation
- Low Power Consumption
- Rapid Deployment, Fast Data Acquisition
- Optimized for Use in Highly Resistive Areas (permafrost, deserts, sand, snow, resistive geology, even roads and pavement)

Fast Resistivity Measurements Without Probes

The new Geometrics OhmMapper is a capacitively-coupled resistivity meter that measures the electrical properties of rock and soil without cumbersome galvanic electrodes used in traditional resistivity surveys. A simple coaxial-cable array with transmitter and receiver sections is pulled along the ground either by a single person or attached to a small all-terrain vehicle. Thus, data collection is many times faster than systems using conventional DC resistivity.

Create Continuous Depth Sections Easily

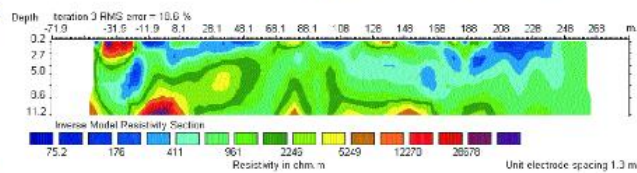
Multiple passes with the OhmMapper



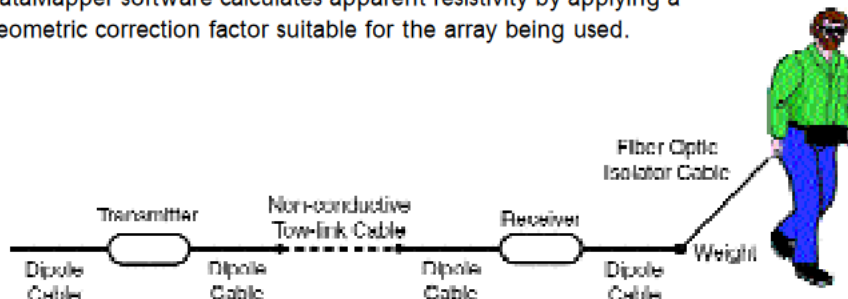
Applications:

- Groundwater Exploration
- Engineering Studies
- Minerals Exploration
- Geologic Mapping
- Archaeological Studies
- Academic Research

OhmMapper being towed over grass and pavement. Contact is made capacitively with the ground through insulated cables.



Here's How It Works: A transmitter electrifies two coaxial cables (transmitter dipole) with an AC current. Current is thus coupled to the earth through the capacitance of the cable. A matched receiver, automatically tuned to the transmitter frequency, measures the associated voltage picked up on the receiver's dipole cables. The receiver then transmits a voltage measurement, normalized to current, to the logging console. After downloading to a computer the DataMapper software calculates apparent resistivity by applying a geometric correction factor suitable for the array being used.



Data Processing Software and GPS Accessories

- Geometrics MAGMAP software
- Res 2DINV Software for ERT data processing and inversion Software
- GPS with external antenna, providing the most accurate data collection for elevation changes along profile (slope/ hilly / valley)

\$245	\$ 735
\$ 275	\$ 825
\$ 105	\$ 315
Excl. GST	Excl. GST (tax),

Inquire equipment availability:

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Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
ELECTRICAL RESISTIVITY TOMOGRAPHY (ERT) EQUIPMENT				
AGI Supersting R1/IP 56 electrode 5m, Active Cables (No SwitchBox Required) Electrical Resistivity Tomography (ERT) Imaging system	<ul style="list-style-type: none"> Electrical Resistivity Tomography (ERT) and IP induced polarisation Imaging system Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Depth to Bedrock profiling and mapping Groundwater exploration and Hydrogeological Studies Environmental studies, Contaminant plume mapping of Soils and Groundwater Earthing tests and surveys for design of earthing systems for power stations. Mineral exploration surveys and targeting Exploration of industrial minerals and construction material resources mainly Sand and Clay deposits. Investigation of Sinkholes and Ground subsidence Investigation of leakages in Dam walls 	\$ 295 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 1,385 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days (\$ 4,155) Excluding GST (tax), Dispatch Shipping, and Return shipping



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Software and GPS Accessories	<ul style="list-style-type: none"> AGI SuperSting Administrator software (for Survey design, Command creation, upload and Download of Data, File format conversions) Res 2DINV Software for ERT data processing and inversion Software GPS with external antenna, providing the most accurate data collection for elevation changes along profile (slope/ hilly / valley) 		\$145	\$ 435
			\$ 275	\$ 825
			\$ 105 Excl. GST	\$ 315 Excl. GST (tax),
Cables only R1/IP 56 electrode 5m, Active Cables	AGI R1/IP 56 electrode 5m, Active Cables 56-electrode 5m Cable, Cable composed of x4 sections each 14 active take-outs. (Cables only). (ACTIVE CABLES No SwitchBox Required)	\$ 265 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 620 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days (\$ 1,860) Excluding GST (tax), Dispatch Shipping, and Return shipping



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
IRIS Syscal PRO 10-ch 72-electrode 5m Electrical Resistivity Tomography (ERT) Imaging system	<ul style="list-style-type: none"> • Electrical Resistivity Tomography (ERT) and IP induced polarisation Imaging system • Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground • Depth to Bedrock profiling and mapping • Groundwater exploration and Hydrogeological Studies • Environmental studies, Contaminant plume mapping of Soils and Groundwater • Earthing tests and surveys for design of earthing systems for power stations. • Mineral exploration surveys and targeting • Exploration of industrial minerals and construction material resources mainly Sand and Clay deposits. • Investigation of Sinkholes and Ground subsidence • Investigation of leakages in Dam walls • Marine Resistivity investigation (with Marine Cables) • Borehole geophysics (using Borehole cables) 	\$ 340 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 1,562 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days (\$ 4,686) Excluding GST (tax), Dispatch Shipping, and Return shipping



Software and GPS Accessories	<ul style="list-style-type: none"> • IRIS ELECPRO and PROSYS-II software (for Survey design, upload and Download of Data, File format conversions) 	\$185	\$ 555
	<ul style="list-style-type: none"> • Res 2DINV Software for ERT data processing and inversion Software 	\$ 275	\$ 825
		\$ 105	\$ 315

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
	<ul style="list-style-type: none"> GPS with external antenna, providing the most accurate data collection for elevation changes along profile (slope/ hilly / valley) 		Excl. GST	Excl. GST (tax),
Multi-electrode Cables only IRIS Syscal 72-electrode 5m Borehole and Marine Cable.	IRIS Syscal 72-electrode 5m Marine Cable, also applicable for Borehole surveys Cable composed of x2 sections each 36 take-outs. (Multi-electrode Cables only).	\$ 265 Excluding GST (tax), Dispatch Shipping, and Return shipping.	\$ 780 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days (\$ 2,340) Excluding GST (tax), Dispatch Shipping, and Return shipping.



AGI STING R1 28 electrode 5m, Active Cables system (No SwitchBox Required)	<ul style="list-style-type: none"> Electrical Resistivity Tomography (ERT) and IP induced polarisation Imaging system Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Depth to Bedrock profiling and mapping Environmental studies, Contaminant plume mapping of Soils and Groundwater Earthing tests and surveys for design of earthing systems for power stations. Exploration of industrial minerals and construction material resources mainly Sand and Clay deposits. Investigation of Sinkholes and Ground subsidence Investigation of leakages in Dam walls 	\$ 225 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 895 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days \$ 2,685 Excluding GST (tax), Dispatch Shipping, and Return shipping
Electrical Resistivity Tomography (ERT) Imaging system				

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Software and GPS Accessories	<ul style="list-style-type: none">• AGI Sting Administrator software (for Command creation, upload and Download of Data, File format conversions)• Res 2DINV Software for ERT data processing and inversion Software• GPS with external antenna, providing the most accurate data collection for elevation changes along profile (slope/ hilly / valley)			
			\$105	\$ 315
			\$ 275	\$ 825
			\$ 105	\$ 315
Cables only	AGI STING R1/IP 28 electrode 5m, Active Cables 28-electrode 5m Cable, Cable composed of x2 sections each 14 active take-outs. (Cables only). (ACTIVE CABLES No SwitchBox Required)	\$ 265	Excl. GST	Excl. GST (tax),
		Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 520	3 Days (\$ 1,560)
			Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping



Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
VERTICAL ELECTRICAL SOUNDING VES EQUIPMENT				
AGI STING R1 With manual single core cables for Vertical Electrical Sounding (VES)	<ul style="list-style-type: none"> Vertical Electrical Sounding (VES) Earthing and Grounding tests and surveys for design of earthing systems for power stations, Solar farms and Wind farms Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Cathodic Protection resistivity surveys Depth to Bedrock profiling and mapping Groundwater exploration Environmental studies, Contaminant plume mapping of Soils and Groundwater 	\$ 195 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 495 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days \$ 1,485 Excluding GST (tax), Dispatch Shipping, and Return shipping



Data Processing Software AGI SUPERSTING R1/IP With manual single core cables for Vertical Electrical	<ul style="list-style-type: none"> AGI Earth Imager 1D Data processing software RESIX 1D / WinSEV™ Data processing software Vertical Electrical Sounding (VES) Earthing and Grounding tests and surveys for design of earthing systems for power stations, Solar farms, and Wind farms Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Cathodic Protection resistivity surveys Depth to Bedrock profiling and mapping Groundwater exploration 	\$ 205 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 195 Excl. GST \$ 525 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 585 Excl. GST (tax), 3 Days \$ 1,575 Excluding GST (tax), Dispatch Shipping, and Return shipping
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Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Sounding (VES)	<ul style="list-style-type: none"> Environmental studies, Contaminant plume mapping of Soils and Groundwater 			
Data Processing Software	<ul style="list-style-type: none"> AGI Earth Imager 1D Data processing software RESIX 1D / WinSEV™ Data processing software 		\$180 Excl. GST	\$ 540 Excl. GST (tax),
IRIS SYSCAL R1 PLUS With manual single core cables for Vertical Electrical Sounding (VES)	<ul style="list-style-type: none"> Vertical Electrical Sounding (VES) Earthing and Grounding tests and surveys for design of earthing systems for power stations, Solar farms, and Wind farms Civil Engineering and Geotechnical Geophysics for Site investigation for Roads, Bridge piers, new ground Cathodic Protection resistivity surveys Depth to Bedrock profiling and mapping Groundwater exploration Environmental studies, Contaminant plume mapping of Soils and Groundwater 	\$ 185 Excluding GST (tax), Dispatch Shipping, and Return shipping	\$ 425 Excluding GST (tax), Dispatch Shipping, and Return shipping	3 Days \$ 1,275 Excluding GST (tax), Dispatch Shipping, and Return shipping



Data Processing Software	<ul style="list-style-type: none"> AGI Earth Imager 1D Data processing software RESIX 1D / WinSEV™ Data processing software 	\$180 Excl. GST	\$ 540 Excl. GST (tax),
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Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
SEISMIC SYSTEMS (REFRACTION AND MASW)				
Complete system				
Dolang DBS280B 24 Channels Land Seismograph	Bedrock and Stratigraphy mapping			
	<ul style="list-style-type: none"> • Depth-to-bedrock assessment • Lithological definition, stratigraphy mapping and bedrock profiling • S-wave velocities [Vs] of weathered zone layers to bedrock. • MASW Multi-channel Analysis of Surface Waves 			
With choice of either 4.5Hz frequency or 10Hz frequency geophones.	S-waves / P-wave velocities and Lithology			
	<ul style="list-style-type: none"> • Vp, (or and) Vs distribution tomography, V_s^{30} maps of the site. • Dispersive analysis of horizontal Rayleigh and Love waves through different formations with depth for seismic engineering design 			
Dynamic moduli parameters, Site characterisation and Seismic engineering				
<ul style="list-style-type: none"> • Site soil categorization and analysis of ground strength (stiffness) and inferred load bearing capacity mapping based on Vs and Vs30. • Quantification and analysis of geo-mechanics dynamic elastic moduli parameters for geotechnical and seismic engineering. • Geo-hazard risk analysis mainly: faults, fractures, seismic risk indexing liquefaction characterization, ground response to earthquakes 		\$ 245	\$ 825	3 Days \$ 2,475
		Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping	Excluding GST (tax), Dispatch Shipping, and Return shipping


Data Processing Software

- ENZO firmware for operation, Survey design and interfacing Seismography to PC/ Laptop during acquisition
- RADEXPRO Data processing software

\$180

\$ 425

Excl. GST

\$ 540

\$ 1,275

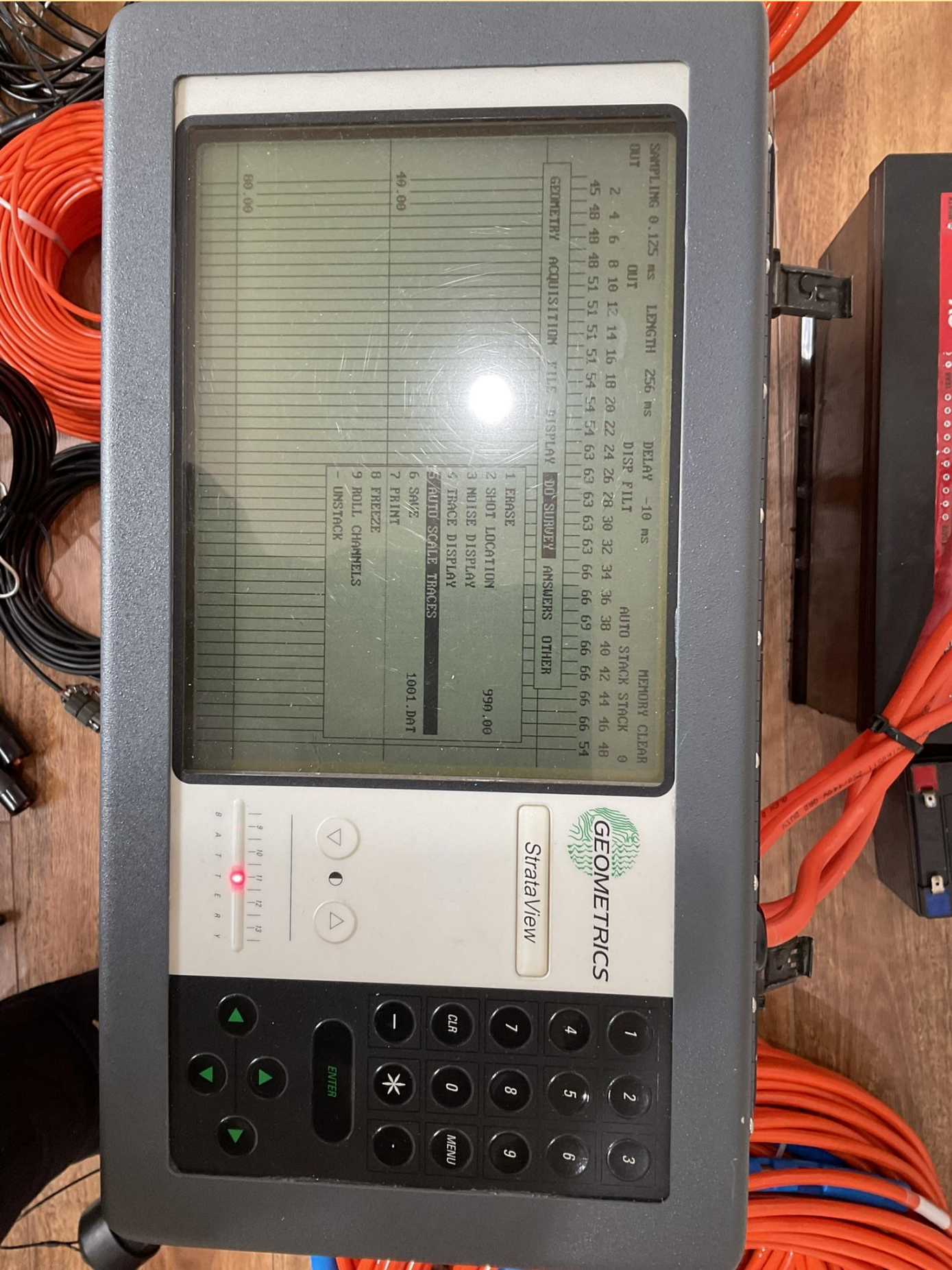
Excl. GST (tax),

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Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Geometrics GEODE 24 Channels Land Seismograph With choice of either 4.5Hz frequency or 10Hz frequency geophones.	Bedrock and Stratigraphy mapping <ul style="list-style-type: none"> • Depth-to-bedrock assessment • Lithological definition, stratigraphy mapping and bedrock profiling • S-wave velocities [Vs] of weathered zone layers to bedrock. • MASW Multi-channel Analysis of Surface Waves S-waves / P-wave velocities and Lithology <ul style="list-style-type: none"> • Vp, (or and) Vs distribution tomography, Vs³⁰ maps of the site. • Dispersive analysis of horizontal Rayleigh and Love waves through different formations with depth for seismic engineering design Dynamic moduli parameters, Site characterisation and Seismic engineering <ul style="list-style-type: none"> • Site soil categorization and analysis of ground strength (stiffness) and inferred load bearing capacity mapping based on Vs and Vs30. • Quantification and analysis of geo-mechanics dynamic elastic moduli parameters for geotechnical and seismic engineering. Geo-hazard risk analysis mainly: faults, fractures, seismic risk indexing liquefaction characterization, ground response to earthquakes	\$ 245	\$ 825	3 Days \$ 2,475 Excluding GST (tax), Dispatch Shipping, and Return shipping
	Bedrock and Stratigraphy mapping <ul style="list-style-type: none"> • Depth-to-bedrock assessment • Lithological definition, stratigraphy mapping and bedrock profiling • S-wave velocities [Vs] of weathered zone layers to bedrock. • MASW Multi-channel Analysis of Surface Waves • Small Seismic Reflection Surveys with (60 Channels and multiple shots) S-waves / P-wave velocities and Lithology <ul style="list-style-type: none"> • Vp, (or and) Vs distribution tomography, Vs³⁰ maps of the site. • Dispersive analysis of horizontal Rayleigh and Love waves through different formations with depth for seismic engineering design Dynamic moduli parameters, Site characterisation and Seismic engineering <ul style="list-style-type: none"> • Site soil categorization and analysis of ground strength (stiffness) and inferred load bearing capacity mapping based on Vs and Vs30. • Quantification and analysis of geo-mechanics dynamic elastic moduli parameters for geotechnical and seismic engineering. • Geo-hazard risk analysis mainly: faults, fractures, seismic risk indexing liquefaction characterization, ground response to earthquakes 	\$ 245	\$ 1,150	3 Days \$ 2,475 Excluding GST (tax), Dispatch Shipping, and Return shipping.






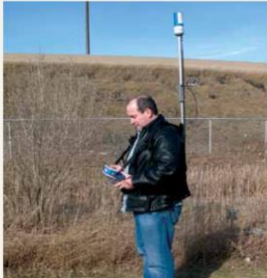
Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
SEISMIC ACCESSORIES (if hired singly)				
Hammer Seismic Source	Hammer source with trigger and 90m trigger extension cable	\$125 Excluding GST (tax), Dispatch Shipping, and Return shipping.	\$135.00 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 405 Excluding GST (tax), Dispatch Shipping, and Return shipping.
Vehicle Mounted Accelerated Weight Drop Seismic Source	AWD-40 PS (Accelerated weight drop) source vehicle mounted	\$255.00 Excluding GST (tax), Dispatch Shipping, and Return shipping.	\$665.00 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,995 Excluding GST (tax), Dispatch Shipping, and Return shipping.





Vehicle Mounted Accelerated Weight Drop Seismic Source	PEG-40 AWD (Accelerated weight drop) source vehicle mounted	\$255.00 Excluding GST (tax), Dispatch Shipping, and Return shipping.	\$665.00 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,995 Excluding GST (tax), Dispatch Shipping, and Return shipping.
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Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
	Borehole S-wave Source			
Borehole Seismic Source		\$155.00	\$625.00	3 Days \$ 1,875
		Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.
		\$ 5.00	\$6.00	3 Days
	Geophones 4.5Hz & 10Hz (cost per Geophone)	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.
		\$125.00	\$325.00	3 Days \$ 975
Seismic Geophone Leader Cable	24-Ch Geophone leader Cable, 10m spacing, split spring or Mueller clips	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.
		\$125.00	\$255.00	3 Days \$ 765
Seismic Geophone Leader Cable	24-Ch Geophone leader Cable, 3m spacing, Mueller clips or Split Spring	Excluding GST (tax), Dispatch Shipping,	Excluding GST (tax), Dispatch Shipping, and	Excluding GST (tax), Dispatch

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Firmware and Software	Field Laptop loaded with System operation and data acquisition software	and Return shipping. \$125.00	Return shipping. \$175.00	Shipping, and Return shipping. 3 Days \$ 525
		Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.	Excluding GST (tax), Dispatch Shipping, and Return shipping.
BOREHOLE SEISMIC ACQUISITION SYSTEM Composed of: GEOSTUFF BHG-1 THREE-COMPONENT (3C) GEOPHONE, Model BHGC-1B CONTROLLER, DOLANG DBS280B 24-CHANNEL SEISMIC RECORDING SYSTEM		Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Borehole Seismic Survey Equipment and Accessories	GEOSTUFF BHG-1 3C Downhole Geophone , with 50m length Polyurethane jacket Kevlar braided water-proof SU-8 Connector on wet-end NK-27-21C on dry-end	\$ 245 Excluding GST (tax), Dispatch Shipping, and Return shipping.	\$465 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,395 Excluding GST (tax), Dispatch Shipping, and Return shipping.
	GEOSTUFF BHGC-1B Borehole Geophone Controller includes: 24V internal battery pack, 110/220V charger, Output cable with appropriate connector to Dolang DBS280B Seismograph		\$425 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,275 Excluding GST (tax), Dispatch Shipping, and Return shipping.
	DOLANG DBS280B 24-Channel or GEOMETRICS ES3000 Seismograph/ Data recording system in shock-proof transportation pelican case,	\$125	\$ 375 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,125 Excluding GST (tax), Dispatch Shipping, and Return shipping.
	Field Laptop computer loaded with ENZO Dolang seismic system drivers and acquisition software.	\$95	\$ 105 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 315 Excluding GST (tax), Dispatch Shipping, and Return shipping.
	Seismic Energy Source (please specify if Borehole sparker (P or PS) or Hammer trigger source on land with Shot-plate. Includes 90m trigger extension cable	\$45	\$95 Hammer Trigger with 90m extension cable	3 Days \$ 315 Excluding GST (tax), Dispatch Shipping, and Return shipping.

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
LAND MAGNETOMETERS AND GRADIOMETERS				
Scintrex ENVI PRO PROTON Precision Magnetometer / Gradiometer				
The Scintrex ENVI PRO MAGNETOMETER is low cost, lightweight, portable proton precession magnetometer/gradiometer, which enables to survey large areas quickly and accurately. Offers the flexibility to find the increasingly more elusive anomalous targets.				
A complete ENVI PRO Portable Field and Base Station Magnetometer				
<ul style="list-style-type: none">• True Simultaneous Gradiometer• GPS Integrated positioning• Complete with mapping software				
<div>APPLICATIONS</div> <div>Since the ENVI PRO system capabilities are versatile, it can be used in a variety of applications including:</div> <div><ul style="list-style-type: none">• Mineral Exploration• Geological Mapping• Environmental Site Characterization• Groundwater Exploration• Groundwater Studies• Geotechnical Studies• Civil Engineering• Archaeology</div> <div></div>		\$225	\$ 955 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,865 Excluding GST (tax), Dispatch Shipping, and Return shipping
https://scintrexltd.com/wp-content/uploads/2017/02/Envi-Pro-Manual-2_0.pdf				



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GEM GMS-9 V5.0 OVERHAUSER MAGNETOMETER.				
For mineral exploration, Mining, Oil and Gas and Groundwater exploration. https://www.gemsys.ca/rugged-overhauser-magnetometer/		\$225	\$ 755 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
				
MARINE MAGNETOMETERS AND GRADIOMETERS				
JW FISHERS PROTON-3 MARINE MAGNETOMETER				
Commercial grade construction,			\$ 955 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,865 Excluding GST (tax), Dispatch Shipping, and Return shipping
<ul style="list-style-type: none"> High gamma sensitivity, extremely large detection area, 1,500 feet (NT: About 450 meters) on each side (3,000 feet (NT: About 900 meters) The Proton 3 system includes a torpedo tow with 150 feet of cable, and an upper side control unit. 				
				

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JW FISHERS BOAT-TOWED PULSE-10 UNDERWATER METAL DETECTOR / MAGNETOMETER Features <ul style="list-style-type: none"> 12 foot wide and 8-foot-deep detection envelope his detector will locate a variety of targets. Pulse 10 is not affected by the minerals in salt water, coral, rocks with a high iron content, or magnetic sand; all of which cause erratic readings in conventional detectors. 18-inch search coil with 150 feet of cable, Towfish, and the top-side control unit. 		\$225	\$ 955 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,865 Excluding GST (tax), Dispatch Shipping, and Return shipping
				
GROUND PENETRATING RADAR (GPR) FOR SCANNING AND LOCATING UNDERGROUND UTILITY SERVICES GSSI SCAN DUAL FREQUENCY Utility Locating Ground Penetrating Radar GPR Complete with 3 Wheel cart and Dual frequency 300 / 800 MHz Antenna https://www.geophysical.com/products/utilityscan-df		Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
		\$225	\$ 955 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,865 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI UTILITYSCAN Locating Ground Penetrating Radar GPR Complete with 3 Wheel cart and HS-350 MHz Antenna https://www.geophysical.com/products/utilityscan		\$225	\$ 890 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,670 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI SIR-3000 Utility Locating Ground Penetrating Radar GPR Complete with 3 Wheel cart and 400 MHz Antenna		\$225	\$ 890 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,670 Excluding GST (tax), Dispatch

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Optional accessories RADAN 7 for UtilityScan, RADAN 7 Software loaded on laptop				Shipping, and Return shipping
		\$225	\$ 355 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,065 Excluding GST (tax), Dispatch Shipping, and Return shipping
	Accessories: Geode GPS, Transit case, Model 626 survey cart, Model 656 survey	\$225	\$ 385 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,155 Excluding GST (tax), Dispatch Shipping, and Return shipping
	GSSI SIR-3000 Utility Locating Ground Penetrating Radar GPR Complete with 4 Wheel cart and 200 MHz Antenna	\$225	\$ 955 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,865 Excluding GST (tax), Dispatch Shipping, and Return shipping
GROUND PENETRATING RADAR (GPR) SYSTEMS AND ACCESSORIES		Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
	GSSI SIR 3000 Ground penetrating radar (GPR) complete with 3-wheel cart and 400 MHz antenna.	\$225	\$ 890 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,670 Excluding GST (tax), Dispatch Shipping, and Return shipping
	MALA X3M RAMAC Ground penetrating radar (GPR) complete with 4-wheel cart and 250 MHz antenna.	\$225	\$ 890 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,670 Excluding GST (tax), Dispatch Shipping, and Return shipping
	MALA X3M RAMAC Ground penetrating radar (GPR) complete with 4-wheel cart and 500 MHz antenna.	\$225	\$ 890 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,670 Excluding GST (tax), Dispatch Shipping, and Return shipping
	MALA X3M RAMAC Ground penetrating radar (GPR) complete with 4-wheel cart and 800 MHz antenna.	\$225	\$ 755 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
	GSSI Structure Scan Mini HR 3D	\$225	\$ 755 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
	Mala CX11 3D Concrete Imaging System w/ 2.6GHz antenna	\$225	\$ 685 Excluding GST (tax), Dispatch	3 Days \$ 2,055 Excluding

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
GSSI GPR ANTENNAS, ENCODER WHEEL AND CART			Shipping, and Return shipping.	GST (tax), Dispatch Shipping, and Return shipping
GSSI 900 MHz Antenna		\$125	\$ 655 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,965 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI 400 MHz Antenna		\$125	\$ 755 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI 270 MHz Antenna		\$150	\$ 785 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,355 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI 100 MHz Antenna		\$225	\$ 1,055 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI Survey Wheel		\$125	\$ 395 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,185 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI Survey Cart		\$225	\$ 355 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,065 Excluding GST (tax), Dispatch Shipping, and Return shipping
MALA GPR ANTENNAS, ENCODER WHEEL AND CART		Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
Mala 250 MHz Antenna (supplied with X3M RAMAC Controller)		\$225	\$ 595 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,785 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 500 MHz Antenna (supplied with X3M RAMAC Controller)		\$125	\$ 555 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,665 Excluding GST (tax), Dispatch Shipping, and Return shipping

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Mala 800 MHz Antenna (supplied with X3M RAMAC Controller)		\$150	\$ 485 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,455 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 1600 MHz (1.6GHz) Antenna (compatible with CX11 /12 Concrete scanner GPR)		\$125	\$ 450 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,350 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 2300 MHz (2.3GHz) Antenna (compatible with CX11/12 Concrete scanner GPR)		\$125	\$ 425 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,275 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 1200 MHz (1.2 GHz) Antenna (compatible with CX11/12 Concrete scanner GPR)		\$125	\$ 495 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,485 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala Rough Terrain 4-Wheel Cart		\$225	\$ 355 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,065 Excluding GST (tax), Dispatch Shipping, and Return shipping
CONCRETE SCANNING GROUND PENETRATING RADAR (GPR)		Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
GSSI STRUCTURESCAN MINI XT 2.6GHz Concrete Scanner GPR		\$125	\$ 655 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,965 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI STRUCTURESCAN MINI XT 2.6GHz Concrete Scanner GPR with Palm Antenna accessory		\$125	\$ 755 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 2,265 Excluding GST (tax), Dispatch Shipping, and Return shipping
GSSI Structure Scan Mini HR 3D		\$125	\$ 595 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,785 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala CX11 Concrete Scanning System w/ 2.3GHz antenna		\$125	\$ 595 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,785 Excluding GST (tax), Dispatch

Item	Applications / Objective	Prep (AUD\$)	Rental per Day (AUD\$)	Min Rental Period (AUD\$)
				Shipping, and Return shipping
Mala CX11 3D Concrete Imaging System w/ 1.6GHz antenna		\$225	\$ 595 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,785 Excluding GST (tax), Dispatch Shipping, and Return shipping
ACCESSORIES AND CHOICE OF CONCRETE SCANNING ANTENNA				
Mala 1600 MHz (1.6GHz) Antenna (compatible with CX11 /12 Concrete scanner GPR)		\$125	\$ 450 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,350 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 2300 MHz (2.3GHz) Antenna (compatible with CX11/12 Concrete scanner GPR)		\$125	\$ 425 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,275 Excluding GST (tax), Dispatch Shipping, and Return shipping
Mala 1200 MHz (1.2 GHz) Antenna (compatible with CX11/12 Concrete scanner GPR)		\$125	\$ 555 Excluding GST (tax), Dispatch Shipping, and Return shipping.	3 Days \$ 1,665 Excluding GST (tax), Dispatch Shipping, and Return shipping