



ELECTROSCAN

UTILITY LOCATION, MAPPING AND PROTECTION



**Your trusted partner in
detection, location and mapping**

**Providing certainty,
managing risk.**

Knowledge is power.

The larger your project, the more important it is that you have detailed and accurate information on all of the underground and subsurface utilities at your site.

Whether your development is civil, commercial, or retail, Electroscan will work with you from the planning stage to ensure your projects are delivered safely, on time and within budget.

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Why Electrosan?

Detection and location specialists

Our specialist team are fully trained across a comprehensive range of innovative technologies and surveying techniques. We stay up to date with global best practice to deliver the best possible information for our clients.

Tailored solutions

Our utility detection, location and mapping solutions are designed to meet the unique needs of each project scope and budget whilst also providing consistent data at each stage. We also offer flexible data delivery and visualisation options that can integrate seamlessly with your design software.

Your trusted partner

As a trusted advisor to the civil and construction industry, we hold ourselves to the highest standards of safety and quality. We are proud of our internationally accredited HSSE management systems and processes, and are committed to the ongoing training and professional development of all of our team members. Electrosan is also fully insured and ISO14001:2015, OHSAS18001:2007, ISO9001:2015 certified.

Our services.

Mapping and modelling

Utility service location

Concrete scanning

Pipe inspections

Our approach



PHASE 1: We believe early planning and communication is key

- ✓ In-depth consultation to fully understand your requirements and recommend the services and data delivery options that will best meet the complex needs of your project.
- ✓ Coordination of DBYD referrals, site plans and/or traffic management plans & permits.



PHASE 2: On-site detection and location by our team of specialists

- ✓ Safety assessments and inductions for the work site.
- ✓ Location and mapping of all utilities identified on available plans using our comprehensive range of technologies.
- ✓ Detailed passive and inductive sweeps to detect any unknown subsurface assets.
- ✓ Accurate data management and record keeping in line with your requirements.
- ✓ Preparation of preliminary drawings, or other visualisation options for clash detection.



PHASE 3: Pre-design verification

- ✓ Collaborative approach to identifying the scope of potholing required to meet the latest QL-A survey standards.
- ✓ Coordination of traffic management plans, permits, surface removal and reinstatement.
- ✓ Documentation of all relevant asset information on potholing diagrams.
- ✓ Consolidation of all project data into the preferred delivery format.

**Our methodology has
been developed with the
end-to-end design and
construction process in mind.**



Mapping and modelling

Our mapping expertise sets us apart from other utility detection providers.

We capture 3D coordinate information when conducting all of our location and detection works. This means that we can deliver all of your survey and location data in a consistent format. This data can be seamlessly integrated with topographic surface information for easy design and clash detection.

We can even help you turn your existing 2D plans and design documents into 3D models so you can truly visualise how your design elements will interact with the current site environment.

Our deliverables have complete BIM functionality and are fully compatible with all major engineering software packages including:

- ✓ AutoCAD
- ✓ Revit
- ✓ 12d
- ✓ Navisworks

Underground utility location

Comprehensive conductive tracing (EMI)

Our team of specialists perform comprehensive EMI scans across a range of frequencies to locate subsurface utilities in the scoped area. They are equipped with a range of electromagnetic devices and complementary technology such as sondes and traceable rodders to ensure maximum accuracy. Any detected services will be electronically located and documented in line with AS5488-209 QL-B standards.

Class-leading Ground Penetrating Radar

Our Ground Penetrating Radars feature 2D Real-time Kinetic GPS technology to capture accurate and detailed data on the depth and dimensions of underground utilities and services. This dual purpose technology allows us to determine depth and dimension whilst also capturing valuable data on real world MGA coordinates at the same time. Utility data captured through GPR profiling is classified as QL-C within Australian standards.



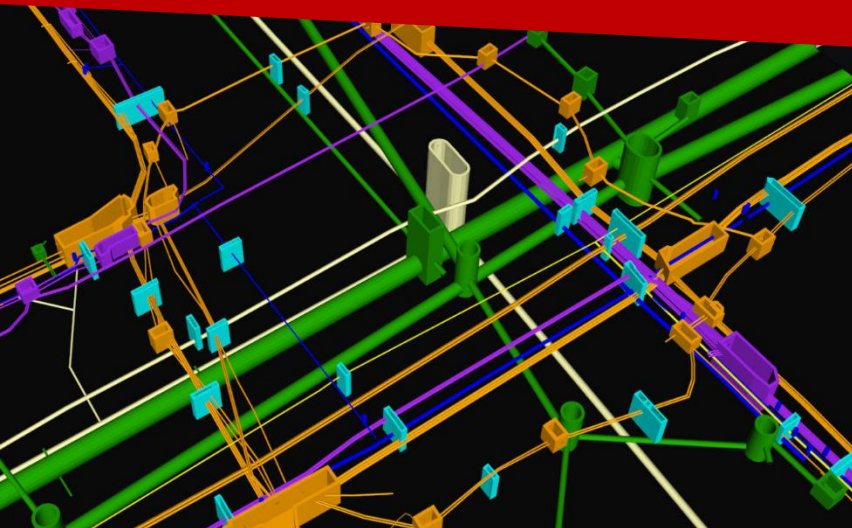
Options for delivery

We offer a range of delivery options so that you can choose the format best suited to your project scope and budget.

At Electroscan, we recognise that the requirements for each project are different, which is why we offer three different delivery options.

3D model

The most impactful option for visualisation and analysis. 3D model delivery allows you to incorporate your above and below ground data for clash detection.



2D model

2D models balance visualisation with simplicity. This is often the preferred choice when 360° views of the design are not required for planning and clash detection.



Photo reports

Simple and straightforward, photo reports are the cost effective way to receive your data. A visual snapshot of services located is provided alongside valuable information on their location and positioning.



Concrete scanning

The safe way to approach working with structural concrete.

Electroscan utilises state of the art GPS enabled Ground Penetrating Radars to rapidly image beneath the surface of concrete structures and provide detailed information on the thickness of the concrete and what is concealed within. This includes first and second level rebars, voids, post-tension cables, structural steel, cavities, utilities, and conduits.

We provide our clients with a detailed analysis before they commence work so they can cut, core and drill into any building, bridge, tunnel or other concrete structure with confidence.

Scan data can also be provided in a range formats so that you can confirm the accuracy of old design plans, identify a clear area for work, and conduct detailed planning for your design or construction project.





Pipe inspections

Our team of specialists use proven technologies and methods to efficiently assess the condition of stormwater drainage, sewerage systems and other pipe infrastructure.

This can be combined with our other surveying techniques to provide clients with the full picture of what they need to consider for the design and construction of their development.

Using CCTV systems

CCTV systems are a leading technology in confined space works and are used by industry leaders to safely and efficiently inspect and assess pipe infrastructure.

Our equipment has full HD video capability to accurately capture the condition of these underground assets for detailed documentation and analysis. We can also identify blockages, partial or complete collapses, root intrusions and investigate other leaks, damages and drainage problems.



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