



**GEOSPATIAL
SOLUTIONS**

Aptella
AUTOMATION +
POSITIONING TECH

Why Aptella

We're there when you need us

With more than 30 years' experience in deploying intelligent positioning solutions, Aptella and its founding businesses have continuously broken new ground in the application of technology to supply survey solutions or software and reporting options that give you eyes on the job at every stage of the project, we offer customised and tailored solutions to match your application needs.

Aptella's expert team is unrivalled in the industry - our people are passionate about what they do and committed to supporting our customers whenever and wherever they're working.

With more than 400 employees across Australia, New Zealand and Southeast Asia, no other company can deliver the depth of expertise and boots on the ground support that Aptella has to offer. We source the latest and most advanced technology from leading suppliers worldwide, ensuring it is fit for the local market and assisting customers with training, service, calibration and support to suit their unique business needs.



Workshop services

Comprehensive product service, maintenance, repairs and advice are provided via our local service centres with manufacturer-trained technicians. We guarantee all our work and can supply calibration certificates if required.



Training

Our expert trainers are here to help you get productive immediately and enable you to take control of your digital jobsite. Our training is application specific and tailored to your industry, providing the perfect foundations to tackle any task or project.



Hire or lease options

A full range of systems, from laser levels through to machine systems and survey instruments, can be hired or leased to suit any application and reduce capital outlay. Get the flexibility to customise technology to suit unique site requirements.





Positioning solutions

Helps Your Business Grow

Employee training is a valuable investment in the growth of every business. When equipment or software is first delivered, users typically receive basic instruction and advice from suppliers to get them 'up and running.' Once the basics are mastered, however, they will benefit greatly from further training to learn the full system capabilities so that they can optimise their performance and increase output.

Campus training courses give customers the ability to improve their knowledge through formal structured learning and are combined with field exercises where appropriate. Course costs are kept to a minimum so that they are an affordable way for customers to improve their skills whilst maximising benefits for their company.

Support

Technology can be a wonderful enabler and productivity booster, but when a system isn't working the way you expect or you are having trouble customising it to your needs, it can quickly become frustrating and time consuming.

Aptella is here to ensure you get maximum up-time and efficiency from the technology you purchase or rent from us. Our multi-skilled team has extensive technical and on-the-job experience and we work with you to deeply understand your requirements and objectives before matching you with an ideal solution.

Our field services team offers boots-on-the-ground support, calibrations, troubleshooting and more, with teams located throughout Australia, New Zealand and South East Asia.

Tokara is a service developed and managed by Aptella to give customers quick, efficient support wherever they're working.

Support contracts are available across the product range and can be scaled to any size of company to offer value for money and faster return on investment on your equipment.



Tokara

Fast, Responsive support

At Aptella, we recognise that every project, site and customer has unique requirements, so we have created a modular solution to meet the evolving demands of your business.

Tokara is a scalable and expandable remote service that uses both web and server infrastructure to provide real-time support and training solution for our geospatial solutions.

Tokara is a turn-key service providing the data plan, server infrastructure, user interface and expert support.

With the power to monitor, service and control your assets from the office and in real-time, Tokara guarantees a safer and more efficient working environment.

POWERED BY

Aptella
AUTOMATION +
POSITIONING TECH



AllDayRTK

Enabling Geo-Precision

AllDayRTK is a Continuously Operating Reference Station (CORS) network providing accurate Network RTK positioning services throughout Australia and New Zealand. AllDayRTK benefits all industries requiring accurate, reliable GNSS positioning. AllDayRTK delivers cm-level accuracy anywhere within a networked area, eliminating the need to setup and maintain a temporary base station.

Aptella has established an extensive network of Continuously Operating Reference Stations (CORS). In addition, we have collaborated with network RTK providers right around Australia, including state-owned infrastructure networks such as CORSnet and VICpos.

AllDayRTK provides a seamless link between these networks to bring you the most comprehensive network RTK solution available.





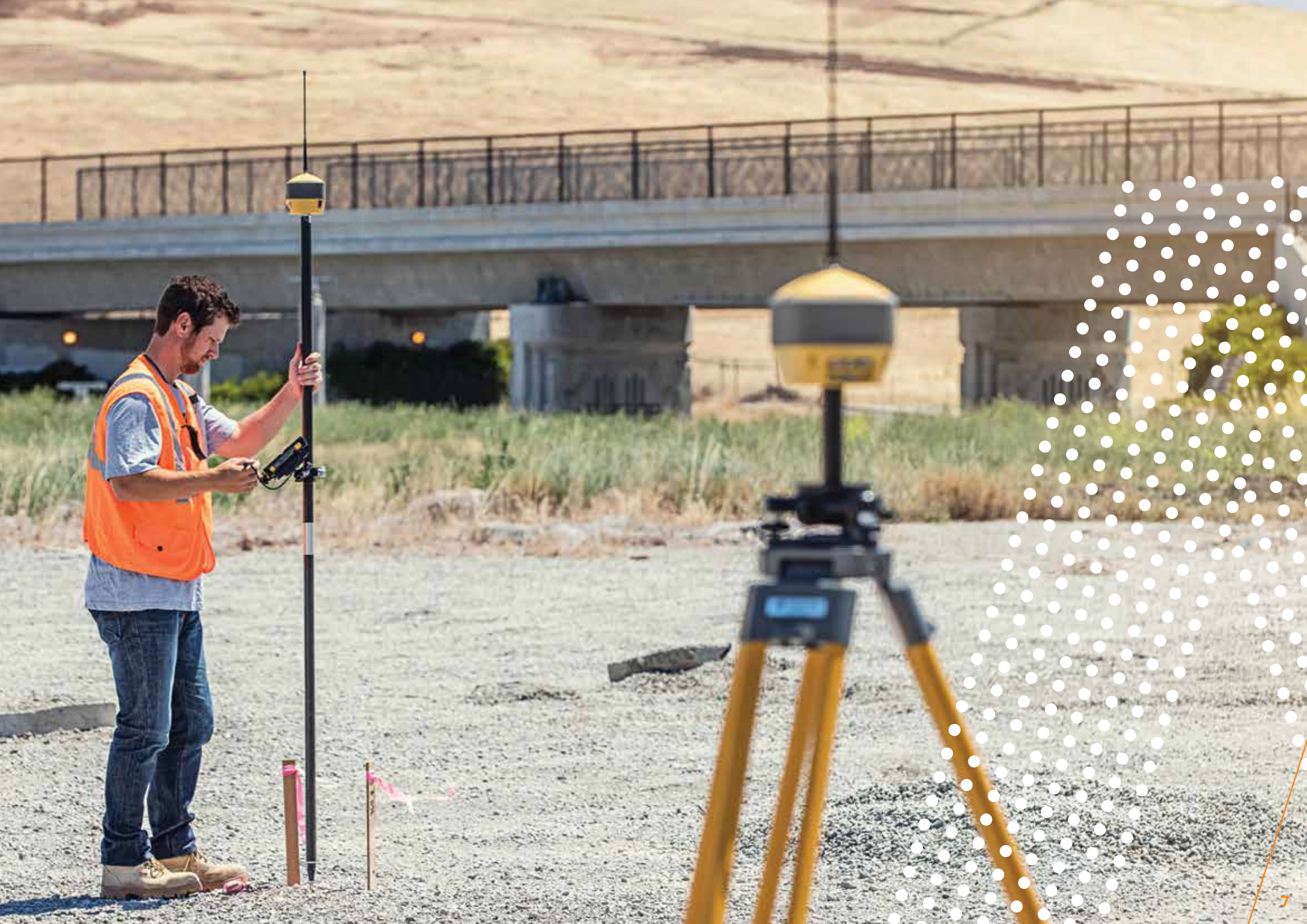
Land Surveying

Measure with confidence, knowing that you are where you need to be. From reliable two person optical setups, to fully robotic systems, as well as integrated GNSS receivers – our wide array of surveying products are powered by intuitive software solutions.

As job sites and conditions change, our GNSS receivers are versatile enough for any field requirement.

- > Topography
- > Cadastre
- > Boundaries
- > Sub-division
- > As-built

Using Hybrid Positioning™ technology that combines robotic total stations with GNSS receivers, known for speed and repeatability – leverages the best of both worlds to improve productivity and give you performance in any environment.





Aptella
CONSTRUCTION &
SURVEILLANCE TECH

TOPCON

Civil Engineering

Control data flow, protect integrity, and improve communication between field and office as design concepts come to life, and stakeout to transform models into reality.

Our partnerships with CAD solution providers across the globe allow design files to move quickly from engineers to your mobile workforce, improving information management throughout the design and build process.

For extremely accurate layout and quick grade checks, combine our GNSS receivers with a proven optical total station.

- > Design compliance verification
- > Site and road set-out
- > As constructed reporting
- > Volume calculations
- > Claims measuring
- > Quality control





Construction Set Out

Get the job done right at each stage, from basic staking to project completion. Our software combined with field-ready GNSS receivers for rough stakeout and high-end optical equipment for precise work offer a broad array of positioning solutions for all of your construction set out needs.

While navigating to a design point, our software visually verifies when your custom tolerances have been met, and quick confidence checks prepare you for the next stage.

Close the loop between field and office while ensuring quality control through Topcon secure web services. Instantly generate customisable reports from the field that can be sent instantly to office personnel — a city, a state, or a country away.







Geospatial Monitoring and Geoscience Applications

Track and use all satellite constellations and signals currently available as well as proposed signals. Our GNSS network systems are secure web services that are scalable and easily supported.

Monitor Deformation and Elevate Safety

Quantify deformation movement at sub-millimetre accuracy to identify even the smallest changes in displacement and increase site safety on high-risk monitoring projects.

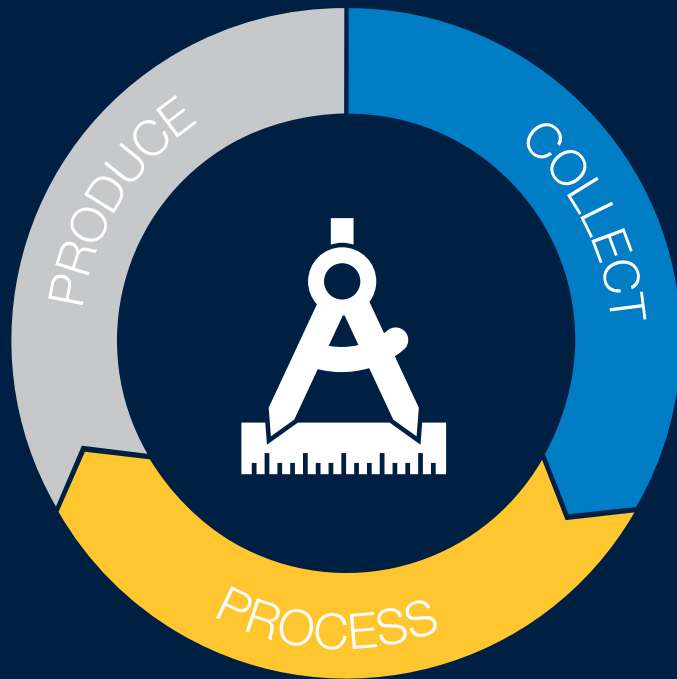
Our proven, easy to deploy, robust and extremely long-life systems are the benchmark for wireless Remote Condition Monitoring (RCM) geotechnical solutions for the Construction and Rail industries.





A Better Way To Work

Modernise your workflow for field, office, and management teams with our MAGNET® Enterprise global web services. Easy connectivity with your field crews and equipment results in measured productivity that is custom built for you.



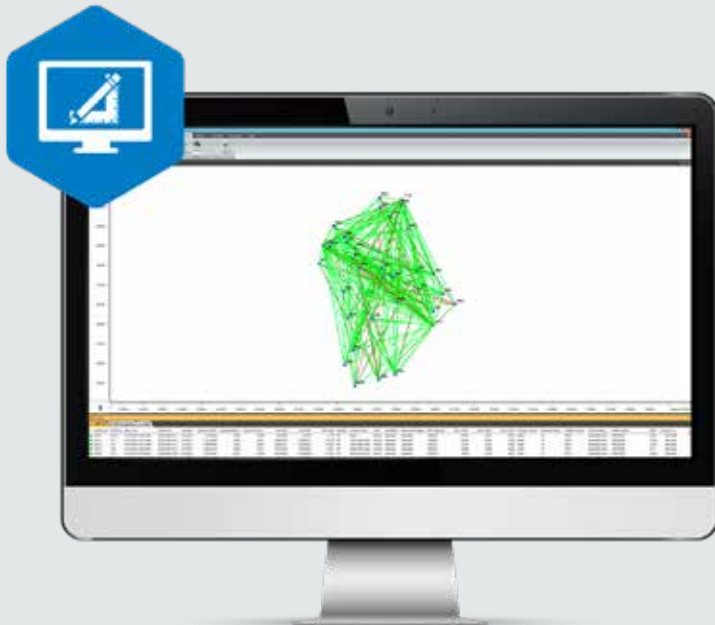
COLLECT



We provide you with the right solutions based on our years of experience in the field. You're in control where and when you need it with colourful and graphical software that supports a vast library of industry file formats.

PROCESS

PRODUCE



No project is an island, teamwork is what produces success – the MAGNET® system was designed with this in mind, bringing together field, office, and managers in a single secure environment. Instant data transfer from active job sites is the new normal for office staff to process and for management to oversee.



No matter what your role is in your company, the modern MAGNET system has evolved with productivity in mind. Field crews move with confidence at the job site driving all the geospatial hardware, office staff process and support with ease, while the managers keep an eye on time and budget.





Precision Hybrid Positioning

GT series total station systems are a powerful asset to any field measurement project.

Simply add a powerful, rugged GNSS receiver like the HiPer HR and you now have the no compromise solution of Hybrid Positioning.

For maximum efficiency, pre-installed MAGNET Field data collection software helps you to seamlessly switch between GNSS and robotic mode options.

Hybrid Positioning™ systems perform faster in the field than stand-alone robotic systems, with more versatility than RTK-only solutions. You get added productivity at every phase of a project, regardless of the job site conditions.



MIRTK
TP688
RTK GNSS

RTK GNSS

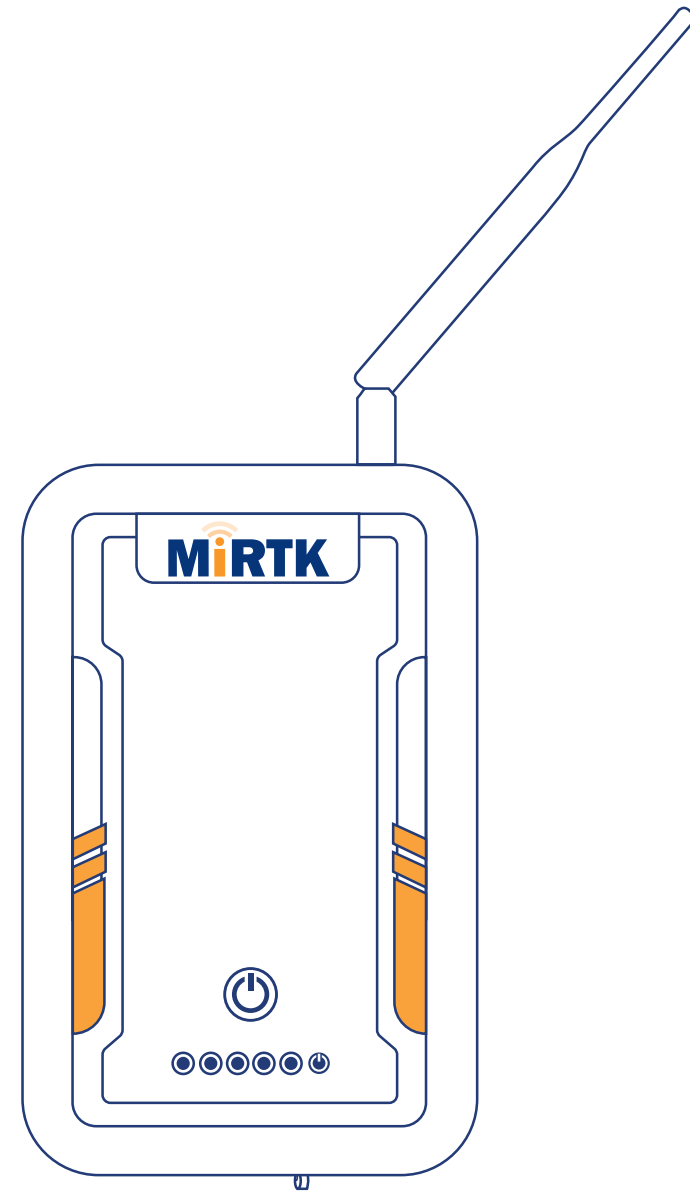


10000mAh

MiRTK Internet Enabled Correction Service

MiRTK offers an alternative to UHF radios. It delivers the same RTK accuracy correction data from your GNSS base station with some key benefits:

- > Works with all brands of GNSS
- > Simple Hardware as a Service solution – no complex licensing
- > Single protocol for multiple devices on site – unlimited connection to machine control, GNSS rovers and other devices requiring RTK positioning



Network and GNSS Productivity

Multiple subscription based GNSS correction solutions are designed to provide productivity 24/7 with:

Universal Tracking Channels

Topcon's patented Universal Tracking Channels™ technology provides the industry's most efficient approach towards identifying and using each and every satellite constellation and signal. Any constellation and any signal can be used in any available channel. Thus reaching maximum performance with a reduced number of channels.

Topcon GNSS receivers are the only ones to use Universal Tracking Channels technology, automatically ensuring optimum reception of all GNSS satellite signals.

HiPer HR

Advanced GNSS Receiver

Part of our Elite Survey suite, it's highly configurable and designed to grow with you. You can track every satellite signal above, and handle any job that comes your way.

- > Next generation Fence Antenna® technology for superior reception
- > Unique 9-axis TILT™ compensation
- > Internal Wi-Fi and multi-spectrum Bluetooth®
- > LongLink™ interference-free communication, up to 300m range



HiPer VR

Versatile GNSS Receiver

The HiPer VR is small and light, but don't let its small size fool you. It's not only packed with the most advanced GNSS technology, it's also built with a rugged housing – not weak plastic – to take the punishment of the job site.

- > Universal Tracking Channels™ for all satellites, signals and constellations
- > Field-tested and ready IP67 design
- > Compact form factor ideal for Millimeter GPS and Hybrid Positioning™
- > Revolutionary 9-axis IMU and ultra-compact 3-axis eCompass



Topcon HiPer CR

Site Receiver



Get precise centimeter-level accuracy effortlessly with this compact powerhouse, ideal for various survey and construction tasks. The HiPer CR is an ultra-lightweight and compact solution that minimizes pole weight, ensuring easy mobility and field usability. Despite its small size, the HiPer CR integrated helical antenna excels in challenging canopy and jobsite environments, delivering exceptional performance.

NET-G5

GNSS Reference Receiver

Born to perform within a reference station network. If there is a navigational satellite up above, this receiver tracks and uses it. Ideal for when you're installing a new GNSS network infrastructure or upgrading an existing one, the NET-G5 is future-ready.



GCX3

GNSS Receiver

The GCX3 is the ideal local job site base/rover RTK (Real Time Kinematic) system or network RTK rover — and like all of our solutions, you can customise it to meet your needs and create your own workflows.

- > All-in-view constellation GNSS receiver
- > 1226 optimised satellite tracking channels
- > Compact, lightweight, rugged and cable-free design
- > Ideal network RTK rover
- > Wireless, multi-channel long-range Bluetooth® technology



GRX3

GNSS Receiver

This fully integrated all-in-view constellation RTK GNSS receiver brings a new level of versatility and flexibility into your precision positioning applications. The GRX3 provides unmatched usability and versatility that's sure to enhance your productivity.

- > Sokkia Tilt Technology
- > RTK and static survey operations
- > Fusion Positioning™ technology automated workflow
- > Standard RTK and Network RTK
- > Sokkia Tilt Technology



Survey Tablets

Application Ready, Solution Oriented

With best-in-class features including an ultra-rugged ergonomic design, sunlight-readable display, and all-day battery life, Topcon & Sokkia rugged tablets provide the ultimate device for a variety of mobile data collection applications.

Waterproof, dustproof and shockproof, each rugged tablet goes through extensive testing to ensure it's built ultra-tough for unwavering reliability in the harshest work environments out there. With the highest certified protection against water and dust, the Rugged Tablets are stamped with an impressive IP68 rating and is designed to exceed MIL-STD-810G for water, humidity, sand and dust, vibration, altitude, shock, and temperature.

Translation? This thing is built like a tank. No matter if you're working in hot, cold, wet, or dusty conditions, our rugged tablet range is your office, anywhere.

Expand Your Horizons

Topcon exclusive LongLink™ communication technology is built into the FC-6000 and provides the ability to connect and drive Topcon total stations and GNSS receivers wirelessly out to 500 metres.

FC-6000 / SHC6000

Your office, Anywhere

Bring office-level processing speed directly to your project site. Stay connected, productive, and in control with the 6000 series tablet computer.

- > Sunlight-readable 7-inch display
- > Quad-core Intel® Pentium N4200
- > 8GB RAM
- > MIL-STD 810G and IP68 certified
- > Windows® 10 operating system
- > 8 MP rear camera, 2 MP front camera
- > Integrated 4G LTE cellular module
- > All day battery life



External keyboard

Optional Accessory

The keyboard is designed for on-the-fly installation and quickly snaps onto the FC-6000; no tools required. It features tactile feedback, raised key, and full QWERTY keyboard. It is designed to improve performance of the FC-6000 in cold weather when operators are wearing gloves.



Toughpad FZ-G2 Tablet Computer

The Panasonic Toughbook FZ-G2 is an advanced and durable tablet designed to excel in challenging work environments. This rugged tablet offers exceptional durability and reliability, making it an ideal choice for industries that require a robust device.







Elite Survey Suite

Make your jobs faster, easier, and more profitable with our Elite Survey Suite hybrid positioning solution – the GT Series robotic total station, HiPer HR advanced GNSS receiver, FC-6000 field computer, and MAGNET® software.

This is one powerful Hybrid Positioning™ solution. Measurements are easier and faster, you'll move and capture from point to point more quickly than ever before. Your controller interface is easy to read and navigate with a better communications range so you can do more work with fewer setups.

And you're backed by powerful software that simplifies your project process while securely connecting field to office. Whether your company uses Autodesk, Bentley, or Topcon, the integration is seamless.

GT Series

Robotic Total Station

The GT series of robotic total stations are a trimmed down, high-performance solution that's ready to impress today, yet still grow with you into tomorrow. You get the efficiency of a single-operator robotic system, the power of long range reflectorless measurements, and the ability to perform as a hybrid positioning solution. All in a compact system that's a third smaller and twice as fast.

UltraSonic technology is the driving force for the GT Series. You can see and hear the difference immediately. The UltraSonic motors are the fastest available in the market - at 180 degrees per second it's the smoothest and most accurate prism-tracking available.

- > UltraSonic Direct Drive motors
- > 30% smaller and lighter than any previous Topcon robotic
- > TSshield™ global service
- > Advanced UltraTrac technology
- > 3-year instrument warranty
- > 5-year motor warranty
- > Available in two models



GT-600

Perfect for cadastral and land surveying. The 500 series is the ultimate choice for power and versatility

- > Available in 2", 3" & 5"
- > EDM range of 4,500m
- > Non-prism range of 800m
- > EDM accuracy 2mm + 2 ppm
- > Turning speed of 120 degrees per second

GT-1200

The 1200 series can be remotely upgraded for machine control applications making it the perfect choice for engineering surveys. The high accuracy EDM also makes this series the ultimate instrument for concrete and bolt setout application.

- > Available in 1", 2" & 3"
- > EDM range of 5,000m
- > Non-prism range of 1,000m
- > EDM accuracy 1mm + 2 ppm
- > Turning speed of 180 degrees per second

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RC-5

No matter whose robotic instrument you operate there will always be instances during field work of loss of lock between the robotic station and the user at the robotic pole.

The Topcon solution provides the fastest and simplest method of establishing prism lock between the instrument and the robotic pole offering an effortless “single tap” within the field software!



LN Series 3D Setout Instrument

The world’s first 3D positioning system designed specifically for construction setout.

The first time you see it you know it’s unlike anything you’ve seen before. Its clean, innovative design tells you that the LN Series is a game changer. The LN Series strips away complexity to deliver an easy-to-use tool dedicated to construction layout. The LN Series utilises Topcon’s time-proven laser and robotic total station technologies to create a totally new tool that’s easy to use, without sacrificing the accuracy and versatility demanded for all types of construction layout.



MS AXII Series High Accuracy Measuring Station

In addition to natural hazards, such as harsh weather, soil movement or change of ground water level, engineering structures, such as buildings, dams, tunnels and bridges can always be affected by movement caused by excavation, heavy construction and piling placement. The MS Series provides superior measuring precision and is equipped with environmental protection and functions necessary in monitoring applications, allowing it to be utilised in a high-precision monitoring solution.



IX Series

The Ultimate Robotic Total Station

The IX series of robotic total stations are a trimmed down, high-performance solution that's ready to impress today, yet still grow with you into tomorrow. You get the efficiency of a single-operator robotic system, the power of long range reflectorless measurements, and the ability to perform as a hybrid positioning solution. All in a compact system that's a third smaller and twice as fast.

UltraSonic technology is the driving force for the iX Series. The UltraSonic motors are the thinnest, lightest, and most powerful on the market – providing you with the smoothest and most accurate prism-tracking possible. It's a difference you can see and hear immediately. With a rotation speed of 150° per-second, no matter how fast you move, or how many obstacles are in the way, you cannot outrun the iX.

- > UltraSonic Direct Drive motors
- > 30% smaller and lighter than any previous Topcon robotic
- > TSshield™ global service
- > Advanced UltraTrac technology
- > 3-year instrument warranty
- > 5-year motor warranty
- > Available in two models



IX-600

Perfect for cadastral and land surveying. The 500 series is the ultimate choice for power and versatility

- > Available in 2", 3" & 5"
- > EDM range of 4,000m
- > Non-prism range of 800m
- > EDM accuracy 2mm + 2 ppm
- > Turning speed of 85 degrees per second

IX-1200

The 1200 series can be remotely upgraded for machine control applications making it the perfect choice for engineering surveys. The high accuracy EDM also makes this series the ultimate instrument for concrete and bolt setout application.

- > Available in 1", 2" & 3"
- > EDM range of 6,000m
- > Non-prism range of 800m
- > EDM accuracy 1mm + 2 ppm
- > Turning speed of 150 degrees per second



RC-PR5

No matter whose robotic instrument you operate there will always be instances during field work of loss of lock between the robotic station and the user at the robotic pole.

The Sokkia solution provides the fastest and simplest method of establishing prism lock between the instrument and the robotic pole offering an effortless “single tap” within the field software!



NET AXII

Industrial Monitoring & Measurement

Engineering structures, such as buildings, dams, tunnels and bridges, can always be affected by movement caused by excavation, heavy construction and piling placement – in addition to natural hazards, such as harsh weather, soil movement, change of ground water level or any number of other factors. The NET Series provides superior measuring precision and is equipped with environmental protection and various functions necessary in high-precision monitoring applications.



Optical Total Stations

Precision + Usability

Get precise, consistent results every time. We offer the first and only optical robotic communication systems featuring dual-optical reflectorless operation, on-board Windows®, and wireless remote data collection.

Our legendary optics and durability combined with leading communication technology improve measurement performance every day. Get superb prism tracking with built-in security as a standard feature on the most powerful optical total station systems available.

GM-50 Series

Reflectorless Total Station

The GM-50 Series was designed from the ground up to deliver the very latest technological advantages, all in a small, sleek design – you'll appreciate the advantages from the very first measurement.

- > Fast and accurate new EDM
- > Bluetooth® communications (optional)
- > Advanced angle accuracy
- > Long battery life – 14 hours
- > Rugged, waterproof design with IP66 rating
- > 500m long-range reflectorless measurement



GM-100 Series

Manual Total Station

The GM-100 series was designed from the ground up to deliver the very latest technological advantages, all in a small, sleek design – you'll appreciate the advantages from the very first measurement.

- > Advanced security and maintenance with TSshield™
- > Fast and powerful EDM
- > Advanced angle accuracy
- > Long battery life – 28 hours (Eco mode)
- > Rugged, waterproof design



OS Series

On-board Total Station

The OS is a professional grade compact total station. This advanced design provides an on-board data collection interface, exclusive LongLink™ communication, and an incredibly powerful EDM.

- > Advanced security and maintenance with TSshield™
- > MAGNET® Field on-board
- > Exclusive LongLink™ communications
- > Fast and powerful EDM
- > Advanced angle accuracy



iM-50 Series

Intelligent Measurement

The iM-50 Series offers the perfect entry-level site layout and survey instrument. The sleek and light iM-50 is made with superior Japanese quality and design, and built with exceptional function and form in mind.

- > Integrated construction and survey application software
- > Fast, accurate, and powerful EDM
- > Reflectorless up to 500m
- > Prism range up to 4,000m
- > Advanced angle accuracy (2" or 5")



IM-100 Series

Total Station

Easy-to-use, highly accurate, rugged, and reliable the iM-100 manual total station is perfect for entry-level site layout and surveying. The iM-100 is built to be your hardest worker, made to withstand even the toughest conditions and providing up to 28 hours of battery life.

- > Fast, accurate, and powerful EDM
- > Reflectorless up to 800m
- > Dual-axis compensation
- > Waterproof IP66 rating
- > Up to 28 hours in battery life



FX Series

Advanced Total Station

Take charge of job sites with world-class accuracy, the FX is ready for whatever you need to accomplish. This professional grade advanced total station provides an on-board data collection interface, long-range communication, and an incredibly powerful EDM.

- > Lightweight, compact body
- > RED-tech technology reflectorless EDM
- > Long-range Bluetooth® technology
- > Advanced angle measurement system
- > Long-lasting battery
- > Waterproof, rugged, and user-friendly



DL 500 Series

Electronic Digital Levels

The Topcon DL-500 Series digital levels maximise work efficiency and minimise human error, providing consistent measurement precision and speed, regardless of operator skill.

Incorporating cutting-edge Random-Bidirectional (RAB) coding technology and an optimised digital processing algorithm, the DL-500 provides exceptional measurement accuracy, stability and speed under a variety of environmental conditions. Even when the staff surface is partially shaded, or in dim lighting conditions as low as 20 lux, a single button triggers measurement and the DL-500 instantly provides reliable results.

DL-502 and DL-503

Quick. Easy. Reliable

The DL-500 range of digital levels from Topcon strips away the main sources of errors in leveling by integrating RAB (Random-Bidirectional) staff encoding and “Wave-and-Read” technologies.

- > One Button triggers measurement and data storage
- > 0.6mm/0.8mm height accuracy
- > “Wave-and-Read” technology guarantees easy and accurate measurement
- > Pre-installed measurement programs, height difference measurement
- > Inverse staff reading for ceiling height
- > Internal memory



DL 501 Series

World Highest Precision Digital Level

The DL-501 Series incorporates an array of advanced technologies to achieve the highest leveling accuracy in the industry.

- > RAB-Code technology, superior optics, market-proven compensator and magnetic damping system ensure precise staff readings.
- > Dual-axis compensator notifies instrument tilt, RemoteTrigger prevents accidental jolts, and Auto Focus (DL-501Advanced model) eliminates incomplete focusing. These unique technologies remove major error factors.
- > Even in the dim light conditions, if the staff surface brightness is 20lx or more, the DL-501 series can read the staffs without compromising accuracy.
- > 0.2mm precision
- > Auto Focus
- > 2.5sec High Speed Measuremer
- > 20Lxc Minimum Brightness
- > Dual Axis Tile Sensor
- > Line Level Program
- > 10,000 Points Internal Program
- > SD/SDHC card & USB port



SDL Series

Digital Level

The SDL30/SDL50 is an accurate, dependable digital level that combines user-friendly convenience with maximum functionality. All you have to do is aim the staff, adjust the focus, and then with a single touch of a key the SDL30/SDL50 accurately measures height and distance. The results are easy to see on the LCD display.

- > High-speed measurement
- > Consistent performance
- > Water and shock resistant
- > 2,000 point internal memory

SDL-30 and SDL50

Quick. Easy. Accurate

The SDL 30 & 50 from Sokkia strips away the main sources of errors in leveling by integrating RAB (Random-Bidirectional) staff encoding and “Wave-and-Read” technologies.

- > Reliable, easy to use digital level ideal for the construction field.
- > Employs a market proven pendulum compensator with magnetic damping system. Its working range is ± 15 .
- > Incorporates the convenient programs to help speed up construction work.
- > The internal memory holds 2,000 points of data in a maximum of 20 job files.
- > Measured data can be exported in CSV format using the software “SDL TOOL”.



SDL1X

High-End Digital Levels

From Intelligent Auto Focus to wireless operation, many innovative technologies have been implemented for unmatched performance and precision.

The SDL1X can reduce measurement by up to 40% compared to manually focused digital levels! As well as this, its wireless remote trigger eliminates measurement errors caused by touching. When precision has top priority, and measurement speed matters, the SDL1X is the ideal digital level.

Key SDL1X features include:

- > 0.2mm precision (ISO17123-2)
- > Intelligent auto focusing
- > Dual-axis tilt sensor safeguards precision
- > On-board measurement and recording programs
- > 10,000 point memory with USB and SD card slot
- > Optional Bluetooth® wireless for connection to data collectors



Connectivity + Integration

Connect your projects and entire teams from field to office, in real-time.

Our software productivity suite simplifies your project process and allows your team to work seamlessly. From CAD data integration capabilities, to real-time data exchange between office and field, and so much more.

Combining our software and GNSS and optical products streamlines the workflow for surveyors, contractors, engineers, and mapping professionals.

MAGNET® Field Software

Powerful and intuitive field application software that enables you to collect survey-mapping data. Field and office teams can exchange files and communicate in real-time.

- > Graphical intuitive software with low learning curve
- > Direct connection to secure company account
- > Microsoft Bing Maps® for satellite image background



MAGNET® Enterprise Software

Get field results to managers and supervisors in real-time. Create geo-referenced projects for team-based collaboration and log in from any browser to see the site in action.

- > Plan project tasks and visualise completed work
- > Keep pace with each project's progress
- > Secure web service with real-time exchange



MAGNET® Tools

Software

Data processing software that generates final coordinates from measurements taken using MAGNET Field and Pocket 3D software driving any of our total stations, digital levels, and GNSS solutions.

- > Process GNSS and total station field measurements
- > Visualise field work in Google Earth, 3D orbital view, CAD view, and more
- > Create code libraries and generate customised reports

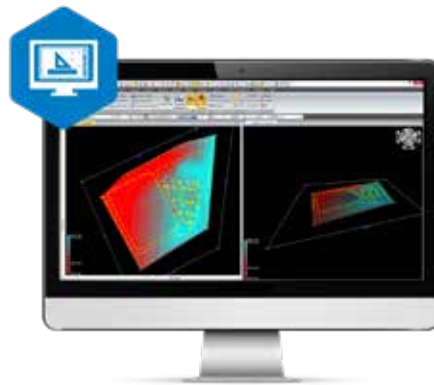


MAGNET® Survey

Software

Produce finished surveys with customisable drafting, design, and processing tools for property plots, sub-division design, and land development projects.

- > Full sub-division design tools
- > Contour and surface creation, volumetrics, and automated pad design
- > User-defined title blocks, symbols, and linetypes



MAGNET® Site

Software

MAGNET Site is a fully featured constructible model and survey software solution for any machine control, land development and road design project.

It is the proven software solution for contractors and 3D model builders thanks to its customisable options and comprehensive editing capabilities. Easily elevate 2D plans and create 3D road and site models from CAD or PDF files. Simplify complex road design projects and enable the streamlined design of road corridors, highways and intersections.



3D Laser Scanning

Our range of terrestrial 3D laser scanners are best in class for indoor and outdoor applications, including long range capability as required. Our solutions include NavVis wearable mapping instruments and Z+F terrestrial scanning systems. With a wide range of supporting software platforms, Aptella can tailor a laser scanning solution that delivers exceptional quality whatever your project needs.

NavVis

Z+F
Zoller-Fröhlich

NavVis

**Accurate. Versatile.
Robust.**

NavVis VLX is a mobile mapping system designed for laser scanning and AEC professionals that enables high-quality reality capture of complex buildings and construction sites.



Capture 3D measurements with two multi-layer LiDAR sensors in combination with industry-leading SLAM software to deliver survey-grade point cloud quality. Four cameras positioned on top of the device take high resolution images in every direction for complete 360 capture.

NavVis

Ivion Core

A reality capture platform for laser scanning and AEC professionals. Manage your 3D scans with intuitive tools for creation, collaboration, and publication. NavVis IVION Core makes mobile mapping workflows more efficient, speeds up model creation and delivery, and adds value to your data.

Imager® 5016 Precision Scanning

The Z+F IMAGER® 5016 combines compact and lightweight design with state-of-the-art laser scanning technology and industry leading in-field registration.

Equipped with an integrated positioning system, HDR camera, and internal lighting, the Z+F IMAGER® 5016 and Blue Workflow provides the most efficient in-field scanning workflow.





MAGNET Collage

Immersive Point Clouds

MAGNET Collage provides a holistic solution to handle and get more value from your point cloud data.

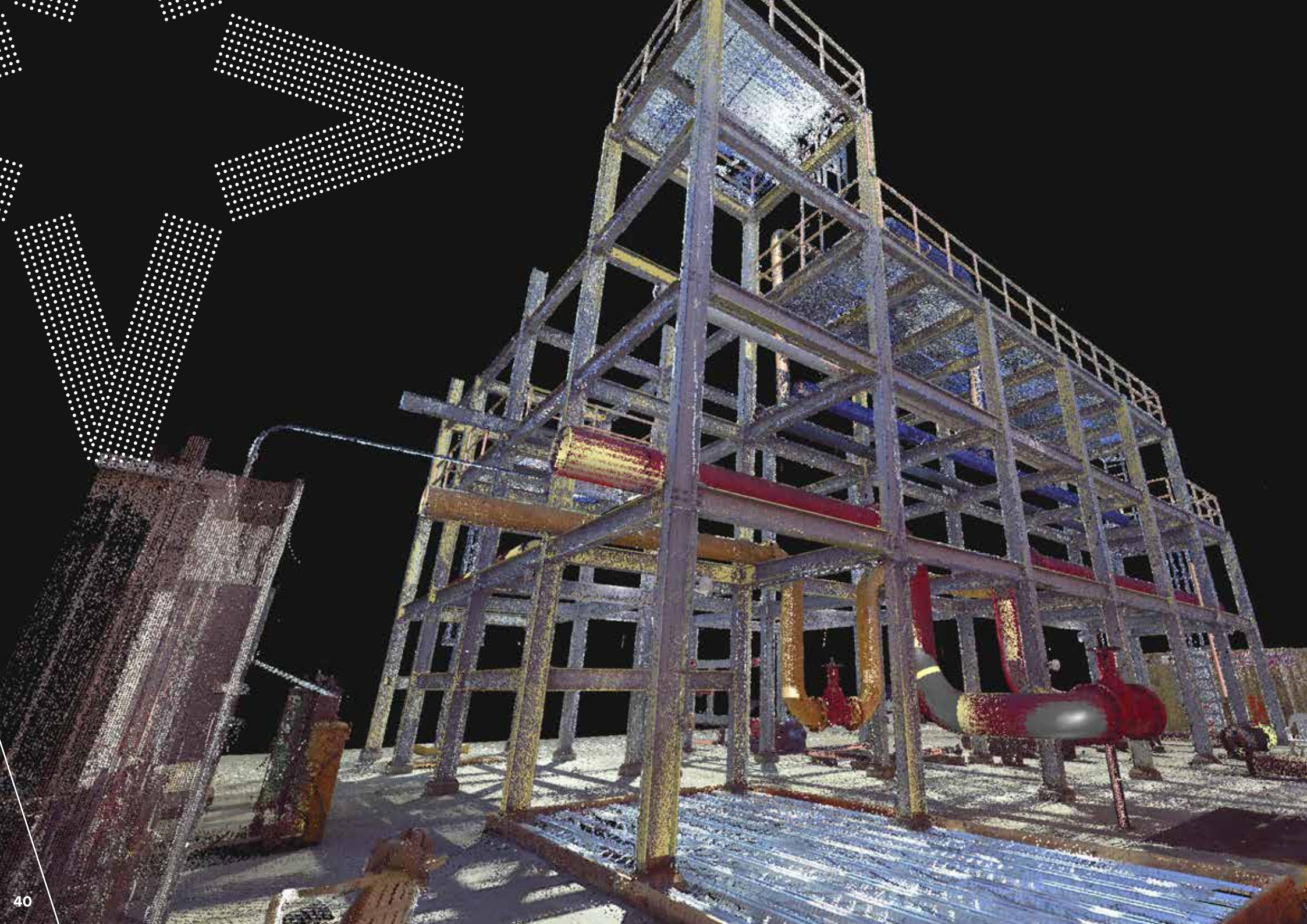
The easy-to-use tools in MAGNET Collage save time and provide for more effective analysis of data, from multiple sensors.

LaserControl® Office

How we build reality

LaserControl® gives extended functions for registration, data visualisation and project management and planning tools.

Various registration tools save time in the field and in the office, which are the striking benefits of this future orientated workflow.



Clearedge 3D

EdgeWise

Modelling and Extraction Software

Model 3D as-built pipes, valves, flanges, structural elements, ducts, walls, tees, and conduit from point cloud data faster and more accurately than ever before!

EdgeWise uses groundbreaking algorithms that can automatically identify and extract walls and windows from point clouds and export them as Revit family objects. You'll save countless hours over creating as-built BIMs natively in Revit. time.

- > Automated Extraction – Complete more than half of the model with zero man hours of work!
- > Increased Workflow Efficiency – Edgewise improves scan-to-BIM/CAD workflow by up to 75%.
- > Automated Modeling – Pattern recognition technology automates models of repeatable patterns.
- > Direct Integration – Our software integrates seamlessly with Revit, Plant3D, PDMS, and CAD!



Verity

Construction Verification Software

It's estimated that 5% to 12% of a construction project budget is consumed by mistakes and rework. New software called Verity™ (from the makers of EdgeWise™) dramatically reduces this financial impact, resulting in reduced risk, more profitable construction projects, more accurate as-builts and fewer schedule delays.

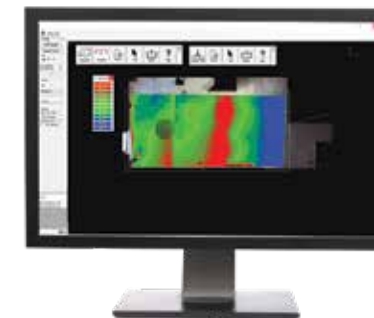
Verity compares point clouds against design & fabrication models, allowing you to verify 100% of your work in the time it currently takes you to spot check 5%. The software helps you find construction mistakes before they become expensive problems.



Rithm

Floor Flatness & Levelness QA Software

Rithm for Navisworks allows you to perform Floor Flatness and Levelness (FFL) directly from scan data loaded into Autodesk Navisworks, on wet or dry concrete in near real-time. The software gives you robust insights of flooring deviations with heat maps, contours and grid points, which you can export back to your coordination model in Navisworks and share with your team.



Professional Aerial Survey Tools

Aptella pioneered the introduction of Remotely Piloted Aircraft Systems (RPAS) for surveying applications in Australia. With unparalleled expertise in this new and innovative technology, you can be assured of the highest standards of expertise support, and remote support using Tokara on your drone controller, enabling you to maximise the benefits of aerial mapping for your application.

Mavic3E

Compact and Powerful

The DJI Mavic 3 Enterprise Series (M3E) redefines industry standards for small commercial drones. With a mechanical shutter, a 56× zoom camera, and an RTK module for centimeter-level precision, the DJI Mavic 3 E brings mapping and mission efficiency to new heights. A thermal version is available for firefighting, search and rescue, inspection, and night operations.



M350 RTK

Powered to Forge Ahead

An upgraded flagship drone platform, the Matrice 350 RTK sets a new benchmark for the industry. This next-generation drone platform features an all-new video transmission system and control experience, a more efficient battery system, and more comprehensive safety features, as well as robust payload and expansion capabilities. It is fully powered to inject innovative strength into any aerial operation.



Trinity PRO

The Mapping Drone For Professionals

Trinity Pro is designed to adapt to changing requirements, evolve in capabilities, and accelerate decision making through aerial data. Future integrations like AI capabilities give new insights and help professionals in various industries to make more informed decisions and drive their business forward.

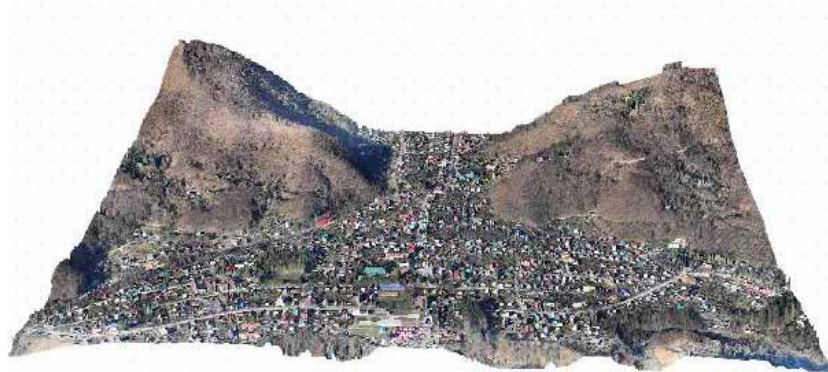


Aerial software

Agisoft Metashape

Agisoft Metashape is a stand-alone software product that performs photogrammetric processing of digital images and generates 3D spatial data to be used in GIS applications, cultural heritage documentation, and visual effects production as well as for indirect measurements of objects of various scales.

Wisely implemented digital photogrammetry technique enforced with computer vision methods results in smart automated processing system that, on the one hand, can be managed by a new-comer in the field of photogrammetry, yet, on the other hand, has a lot to offer to a specialist who can adjust the workflow to numerous specific tasks and different types of data. Throughout various case studies Metashape proves to produce quality and accurate results.

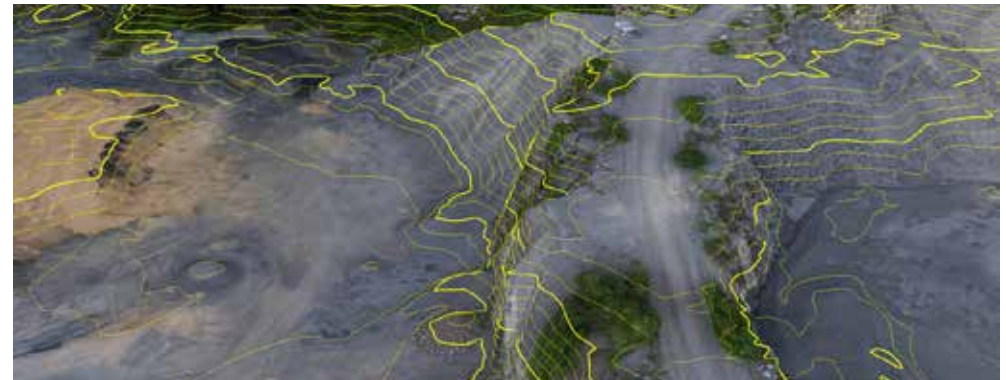


Virtual Surveyor

Virtual Surveyor enables you to stitch together digital elevation models and orthophotos to create interactive 3D models of the surveyed area.

Obtain more survey points and break lines than you would get with traditional survey methods and view your surveyed landscape with millimetre accuracy in a virtual environment.

- > Convert your Remotely Piloted Aircraft (RPAS) data into realistic 3D terrains.
- > Quickly calculate polygon volumes and export volume data using the volume export function.
- > Analyse and measure the virtual environment just like you would in the field.
- > 3D modelling to simulate future scenarios and their effects to the landscape.



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AUTOMATION +
POSITIONING TECH



Monitoring Solutions

Topcon Delta Watch

Delta Watch software provides a modular solution to monitor, manage and evaluate automatic and/or manual monitoring data as well as optionally trigger alarms. Data from robotic total stations, GNSS receivers, leveling devices, and a variety of geotechnical and structural sensors can be processed and analysed individually or as a network-adjusted solution.



As standalone software, Delta Watch delivers accurate and reliable data in a variety of reporting formats to best fit a project's needs. Alternatively, Delta Watch can feed processed data to third-party visualisation software to provide system integration capability in large monitoring projects.

Topcon Delta Log

Accessed via a secure web portal, Delta Log provides an intuitive interface to manage observations, target types, and measurement scheduling.

Topcon Delta Link

Delta Link provides hardware support for autonomous operation in the field. Communications options include Ethernet, Wi-Fi, and a globally approved integrated cellular modem (data SIM provided by third-parties). A 110/240 VAC standard power supply with an external battery backup allows operation during short power outages. An external battery and solar panel can also be used when main power is not available. Delta Link manages each power source, maximising system availability.



Monitoring solutions

Omnidots

High Quality Vibration Monitoring

Are you concerned about the risk of vibrations causing damage to buildings and other structures? Monitor vibrations with the Omnidots solution! The “**SWARM**” vibration monitor, together with the cloud based “Honeycomb” web platform, provides you with insight to vibrations and helps you ensure that vibrations remain within the set limits. With Omnidots’ vibration monitoring solutions, you are in control of all your products, simply by using your smart phone, tablet or laptop.

Honeycomb webplatform

Honeycomb is Omnidots’ cloud-based web platform that provides access to your measurement data and SWARM settings without the need to install any software. With Honeycomb there is no need to physically configure the SWARM or retrieve its data at the construction site. You can reach Honeycomb 24/7 from any location, using your tablet, smartphone or laptop.

- > Wireless data transfer
- > Alert configuration
- > Remote SWARM configuration
- > Multi user
- > Customisable reports
- > Automatically generated reports
- > User friendly



Senceive Wireless Monitoring

Monitoring, data and knowledge are at the heart of making better decisions on assets. Understanding the state of an organisation's assets facilitates efficient, economic and safe operations. Substantial economies can be gained by the rail and construction industry in being able to monitor and predict degradation, schedule remedial action or to react quickly to accidents.

Safety Enhancing

- > Eliminating time on or near track /construction
- > Easy to install, set-up and use
- > Wire and a totally mains power free is available for FlatMesh™ systems

Minimal Whole Life Cost

- > Same units re-usable for multiple applications
- > Operational battery life of 12-15 years
- > Maintenance and calibration free
- > Reliable and proven over many years in field

Accurate, High Resolution, Stable And Repeatable

- > Only use high precision, stable sensors
- > Easy to use web based visualisation
- > Multi-level text and email alerts

Innovation And Intelligence

- > Innovate and collaborate closely with / for clients
- > Integrated and triggered imaging and wireless solutions
- > Intelligent solutions support decision making

Our systems are remotely configurable and customisable. They facilitate predictive remote asset knowledge and understanding to improve predictability ahead of failure, assets can be repaired, replaced or maintained ahead of catastrophic failures.

InfraGuard

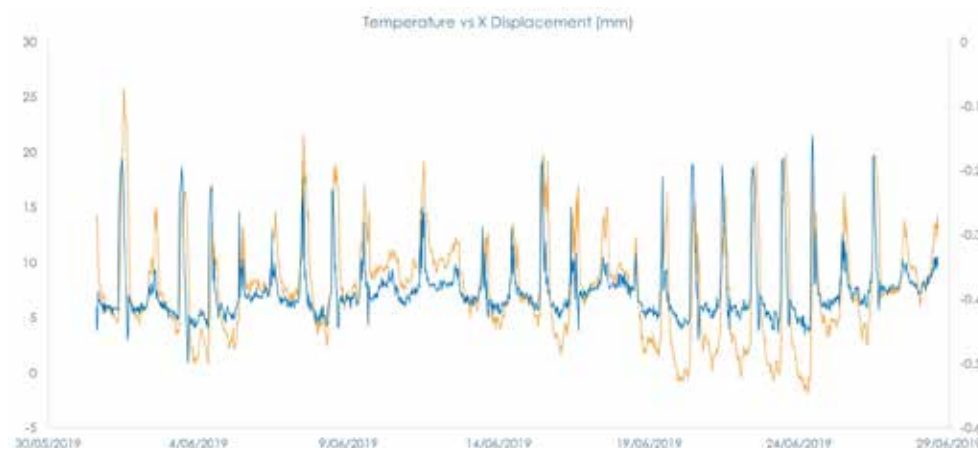
InfraGuard gives you eyes on the scene in near real-time, with a combination of smart tilt sensors, response alert parameters and the back up of photographic images.



GeoWAN

GeoWAN™ is a new wireless IoT platform that builds upon the strengths of the existing proven FlatMesh™. With its extremely long range transmission capability of up to 15km and ability to transmit through buildings. It is ideal for widely dispersed monitoring points, basements and sub-surface and congested urban environments as well as mines, dams and quarries.

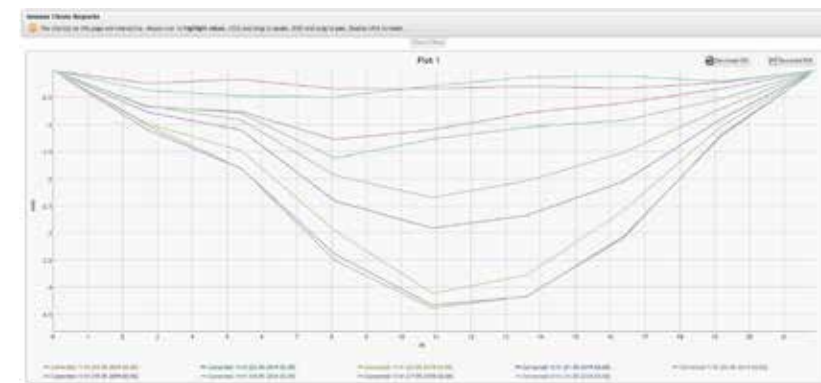
- > Same units re-usable for multiple applications
- > Operational battery life of 12-15 years
- > Maintenance and calibration free
- > Reliable and proven over many years in field



FlatMESH

The award winning FlatMesh™ platform uses a wireless mesh-networked, intelligent sensor system consisting of a collection of small easy to deploy devices, equipped with sensing, communication and computation capabilities. They work co-operatively and intelligently (“they talk to each other”) to enable monitoring of complex layouts or challenging and difficult to access environments.

The FlatMesh™ platform development was part funded by the Technology Strategy Board who recognised Senceive’s leadership in the global wireless market for geotechnical sensing.



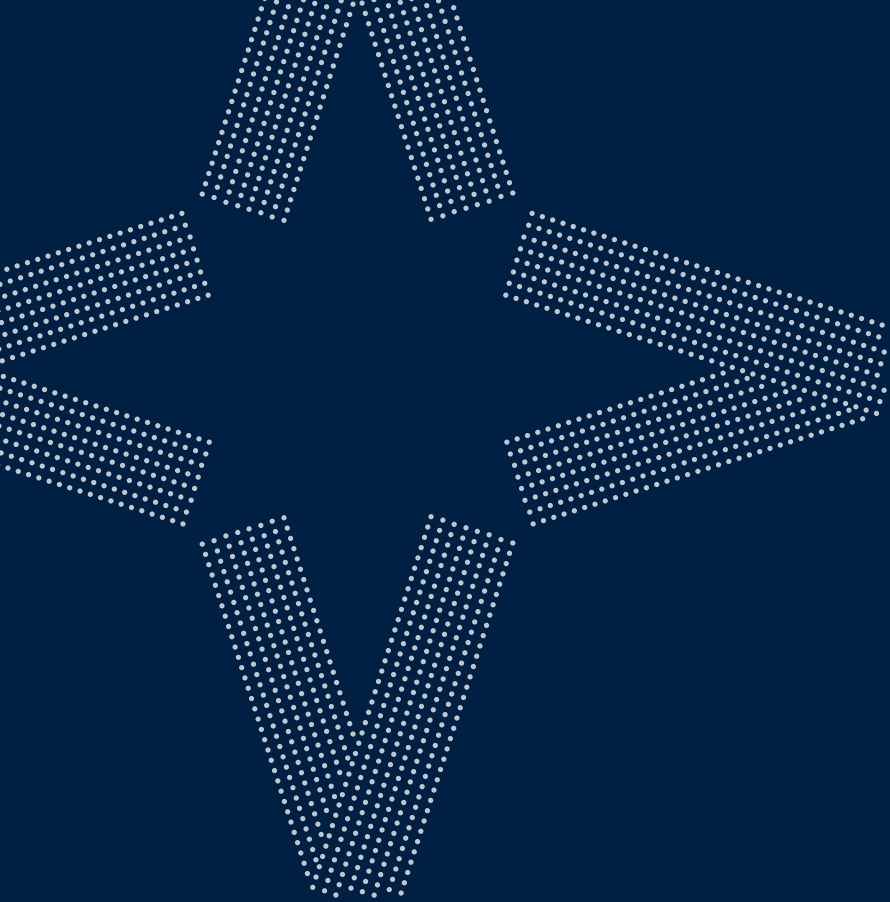




Tiny Surveyor

Tiny Surveyor is a robotic pre-marker tool that will save you time, increase safety and enable you to mark out road lines automatically. With the ability to interface to any GNSS or total station for precise height measurements, the Tiny Surveyor is a versatile and reliable tool that works for eight hours on a single charge.

Upload your design file via USB to the app and watch as the Tiny Surveyor completes the marking work for you. The Samsung tablet enables you to stay in control at all times and its high weatherproof rating ensures the Tiny Surveyor can work in even the toughest environments.



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