



Innovative Mining Solution

Product Overview



Maptek™ has stayed at the forefront of innovative mining technology for over 40 years. We specialise in developing powerful 3D visualisation software and integrated hardware-software systems to help mining professionals better understand their data — across the entire mining value chain.

Overview

Planning & Design

Integrated mine planning and optimisation solutions for operationally achievable mine schedules.



Vulcan

Integrated mine planning and design platform



BlasLogic

Integrated mine planning and design platform



Evolution

Strategic and tactical mine scheduling and optimisation

Exploration & Geology

Advanced solutions for geological modelling, resource estimation, and spatial data analysis.



Vulcan

3D geological modelling, mine design, and planning



GeologyCore

Streamlined geological modelling workflows



DomainMCF

Cloud-based resource modelling with machine learning



Laser Scanner

High-precision laser survey systems



PointStudio

Point cloud processing and modelling software

Operation & Production

Solutions to improve operational efficiency, production control, and site safety.



PointModeller

Point cloud modelling for survey and civil applications



GeoSpatial Manager

Automated survey surface management



Sentry

Surface movement monitoring and tracking solution



Laser Scanner

Survey and monitoring solutions



PointStudio

Point cloud processing and analysis



Vision V2X

Underground vehicle and personnel safety system



Resource Tracking

Material reconciliation and production tracking system



Maptek™ Vulcan

Maptek™ Vulcan delivers advanced solutions for 3D geological modelling, mine design, and production planning for the mining industry.

Vulcan Base

The Vulcan Base package provides essential tools for CAD, visualisation, triangulation, survey processing, basic block modelling, and reserve estimation to support geological modelling, mine design, and production planning workflows. Compatible add-on modules require Vulcan Base as the core platform.

Key Capabilities

- Create and edit mine design data
- Import, export, and transform data from external sources
- Visualize triangulations, drillholes, sample databases, block models, grids, and design data
- Build and manage block models
- Perform reserve estimation with detailed reporting and information breakdowns

Compatible Add-ons

- Geology & Estimation
- Multivariate & Simulation
- Grade Control Suite
- Drillhole Optimizer
- Open Pit Design
- Underground Design
- Open Pit Optimization
- Slope Optimizer
- Software Development Kit

Geology & Estimation

Advanced geology, geostatistical, and resource estimation tools for metalliferous and stratigraphic mining operations. Manage, validate, and analyze drillhole, geophysical, lithological, and assay data directly within Vulcan or through integration with third-party databases. Integrated implicit and stratigraphic modelling tools support fast, repeatable, and automated geological modelling workflows.

Key Capabilities

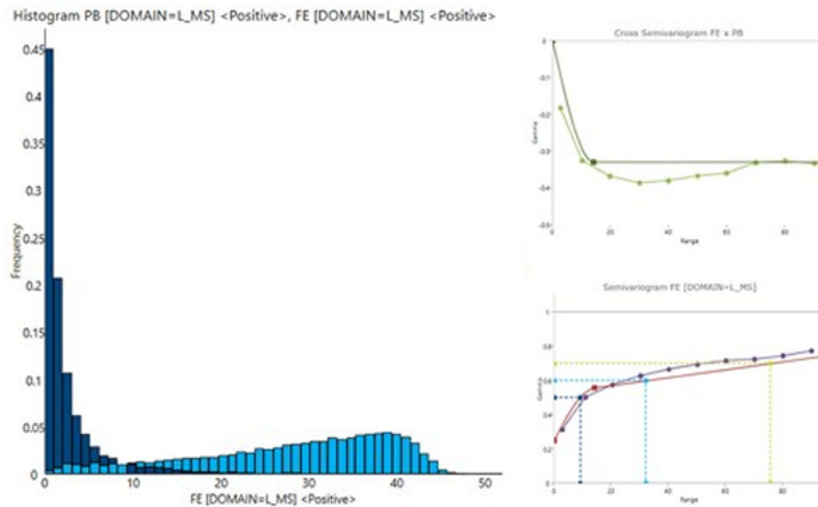
- Compositing and drillhole tools
- Drillhole Planning Tools
- Explicit and implicit geological modelling
- Stratigraphic modelling
- Fault modelling and manipulation
- Interactive 3D geological sculpting
- Variography analysis

Estimation Methods

- Inverse Distance (IDW)
- Simple Kriging (SK)
- Ordinary Kriging (OK)
- Indicator Kriging (IK)
- Indicator Simulation

Data Analysis Tools

- Swath plots
- Contact profile analysis
- Data spacing analysis
- Capping analysis
- Grade estimation tools
- Unfolding tools
- Coal washability analysis



Multivariate & Simulation

Advanced geostatistical tools for multivariate analysis, grade estimation, and geological simulation. Provides deeper insight into geological variability using advanced estimation methods, data transformations, and simulation workflows. Supports multiple co-kriging techniques and Gaussian transformation tools.

Co-Kriging Techniques

- Simple CoKriging
- Ordinary CoKriging
- Standardised CoKriging
- Traditional Ordinary CoKriging

Simulation Methods

- Sequential Gaussian Simulation (SGS)
- Multi Gaussian Simulation
- Sequential Indicator Simulation (SIS)
- Geological variability and uncertainty analysis

Grade Control Suite

Integrated grade control tools for accurate ore-waste definition and optimised material delivery. Includes Grade Control Optimiser and standard Grade Control tools to support consistent ore delivery to specification while maximising mining value. Automated grade control processes improve efficiency and allow geologists to focus on analysis and decision-making.

Key Capabilities

- Automated generation of practical, mineable grade control polygons
- Objective and value-based dig line optimisation
- Flexible mining width constraint settings
- Real-time updates of tonnes, grade, and value during polygon editing

Benefits

- Grade block generation and material reporting
- Reconciliation workflows for production tracking
- Faster grade control workflows with reduced manual processing
- Improved ore recovery and risk reduction



Drillhole Optimizer

Helps maximise the value of drilling programs by assessing potential resource uplift and optimising drillhole placement. Allows geologists to select drill rigs and locations for efficient infill drilling design, and compare manual versus optimised drilling strategies.

Key Capabilities

- Optimise drillhole placement based on resource uplift
- Select drilling equipment and drill pad locations
- Support surface and underground drilling workflows
- Automate drilling scenarios using rig productivity and availability parameters
- Evaluate multiple drilling and budget allocation scenarios
- Compare manual drilling plans with optimised plans
- Improve drilling efficiency, economics, and decision-making
- Consider geological, operational, and budget constraints

Open Pit Design

Comprehensive open pit mine design and drill & blast tools for metalliferous and stratigraphic mining operations. Enables engineers to design, evaluate, and optimize pit operations with fast updates for daily production reporting. Dragline design tools simulate cast blasting, dozing, truck-shovel operations, and material movement.

Design Tools

- Manual and automated pit and dump design tools
- Geotechnical compliance with variable batter angles, berm widths, bench heights, and slope angles
- Road and ramp planning and construction
- Mine plan reconciliation with actual topography

Scheduling & Blast

- Preparation of mining solids for scheduling workflows
- Bench breakdown into mineable solids for detailed scheduling
- Comprehensive drill and blast design tools
- Coal washability tools

Underground Design

Advanced underground mine design and drill & blast tools for cut and fill, sub-level stoping, and room & pillar mining methods. Automated ramp tools simplify decline design, while integrated ring design tools support drill & blast planning for stoping operations.

Key Capabilities

- Create and modify underground development levels
- Design drives, levels, crosscuts, declines, and shafts
- Underground network layout and mine development planning
- Automated and interactive decline/ramp design

Additional Feature

- Underbreak and overbreak analysis
- Drillhole warning and proximity alerts
- Integrated export to VUMA3D and Ventsim
- Ring design tools for drill & blast operations
- Panel Cave Designer for panel caving development
- Open Pit Optimisation



Open Pit Optimization

Advanced optimisation tools for pit limits, cut-off grades, and haulage analysis to maximise project value. Rapid evaluation of mining strategies using current geological models while accounting for dilution, losses, geotechnical constraints, and economic parameters. Focuses on maximising Net Present Value (NPV).

Key Capabilities

- Pit optimisation using Lerchs-Grossmann and push-relabel algorithms
- Cut-off grade optimisation based on Lane's algorithm
- Haulage network and cycle time analysis
- Fleet productivity and haulage profile modelling
- On-the-fly reserving and block model reblocking
- Economic sensitivity analysis for pit optimisation
- Support for complex geotechnical domains
- Embedded animation tools for optimisation visualisation

Stope Optimizer

Integrated underground optimization tools for generating practical and mineable stope shapes directly within the Vulcan 3D environment. Flexible configuration supports steep orebodies, horizontal benches, and underground or open pit applications.

Key Capabilities

- Generate mineable stope shapes from block models
- Compare multiple underground mining scenarios
- Apply minimum pillar and exclusion zone constraints

Benefits

- Support section, polygon plans, and triangulation workflows
- Detailed reporting for scenario evaluation
- Faster underground design and optimization workflows

Software Development Kit (SDK)

Development platform for integrating advanced spatial data capabilities into mining workflows and applications. Enables organisations to build custom tools, automate workflows, and integrate mining spatial data into existing systems. Designed for large and complex mining datasets.

Key Capabilities

- Efficient handling of large spatial datasets
- Custom tool and plugin development
- Integration with existing mining workflows and applications
- Workflow automation and interoperability support

Benefits

- Accelerate application development
- Reduces complexity of spatial infrastructure development
- Supports mining-focused innovation and automation
- Scalable management of large mining datasets



Maptek™ GeologyCore

Streamlined geological modelling workflow from drillhole data validation to domain modelling and model generation.

GeologyCore automates geological workflows, allowing geologists to efficiently validate data, define domains, generate models, and publish results directly to Vulcan.

Supports machine learning, implicit, vein, and stratigraphic modelling methods with fast model updates and scenario testing capabilities.

Key Capabilities

- Import and validate drillhole data
- Define geological domains with Domain Manager
- Generate implicit, vein, stratigraphic, and machine learning models
- Integrated 3D visualisation and lithology targeting
- Model validation with section views and numeric checks
- Publish models directly to Vulcan
- Rapid model updates with new drilling data

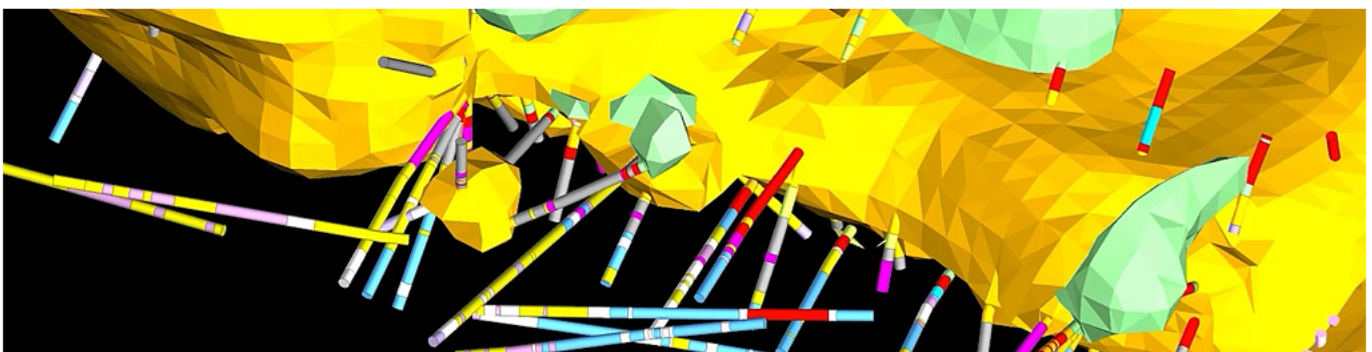
Compatible Add-Ons

Seismic Tools

Integrated 2D and 3D seismic data processing and visualisation tools for geological interpretation. The Seismic Tools add-on enables loading, filtering, correcting, and visualising SEG-Y seismic data within GeologyCore and Vulcan for improved structural and geological interpretation.

Key Capabilities

- Import and process 2D and 3D SEG-Y seismic data
- Depth and datum correction tools
- Time stretch and filtering functions
- Smartline tracing for faults and horizons
- Export 2D profiles to Vulcan formats
- Automatic conversion of 3D seismic data to Vulcan block models
- Integrated colour legends for enhanced visualization





Maptek™ DomainMCF

DomainMCF is available as a standalone solution or as an add-on for Maptek GeologyCore.

Cloud-based geological domain modelling solution powered by machine learning for rapid resource model generation. DomainMCF automatically generates geological domains and grade models directly from drilling or sample data, significantly reducing modelling time compared to conventional workflows.

Integrated data validation ensures geological data quality before modelling, while high-performance cloud computing enables multiple modelling scenarios to run in parallel. Models can be rapidly updated as new drilling data becomes available.

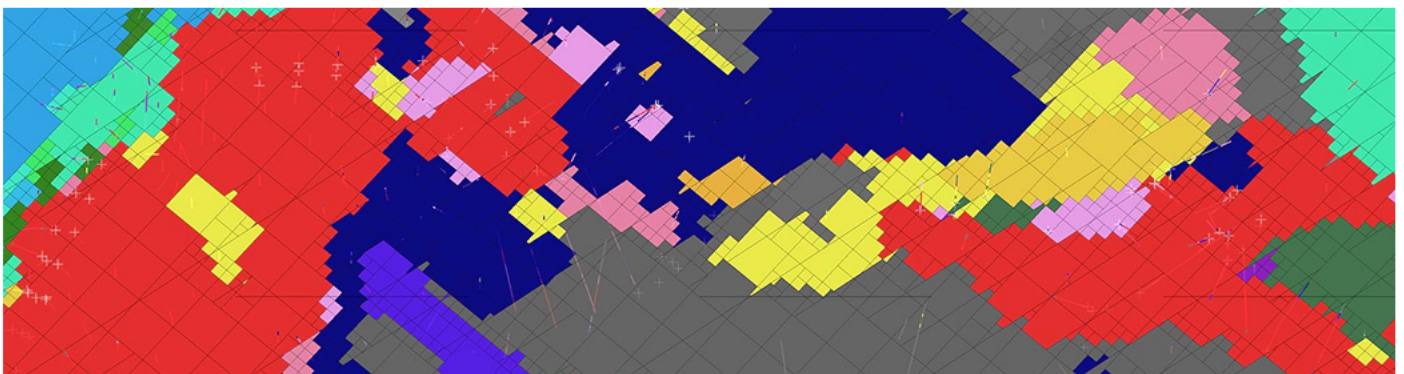
Suitable for exploration projects and operating mines with large and complex datasets.

Key Capabilities

- Automated geological domain modelling
- Machine learning-based resource model generation
- Built-in geological data validation
- Rapid model updates with new data
- Output domain and grade models
- Grade trend modelling and analysis
- Parallel cloud processing for faster workflows
- Suitable for most deposit types
- Fast and secure cloud-based processing

Benefits

- Generate resource models significantly faster
- Reduce modelling time and operational costs
- Improve consistency and repeatability of modelling workflows
- Support uncertainty analysis and risk assessment
- Enhance evaluation of exploration and mining projects
- Minimal setup with flexible cloud deployment





Maptek™ Evolution

Maptek Evolution provides integrated mine planning and scheduling solutions from strategic optimisation to detailed short term operational scheduling. The workflow supports scenario evaluation, sequencing, cut-off optimisation and practical mining schedule generation.

Evolution Planning Workflow

Planning Stage	Product
Strategic Mine Planning	Evolution Strategy
Pit Phase Optimisation	Evolution Phase
Medium – Long Term Planning	Evolution Origin
Short Term Planning	Evolution Epoch

Evolution Strategy Strategic mine planning & optimisation

Evolution Strategy is designed for strategic mine planning and cut-off grade optimisation to maximise project NPV through optimised sequencing and scheduling.

Key Features

- Strategic cut-off grade optimisation
- Sequencing optimisation for maximum NPV
- Multi-process and multi-mine scheduling
- handles complex operational constraints
- Integrated scenario comparison

Benefits

- Improve long term project value
- Generate high-value mining schedules
- Support strategic investment decisions
- Evaluate multiple mining scenarios efficiently

Evolution Phase Pit phase design & shell manipulation

Evolution Phase provides integrated tools to manipulate and optimise pit shells generated during pit optimisation studies.

Key Features

- Split, combine and adjust pit shells
- Generate practical mining phases
- Write updated stage codes back to models
- Integrated pit optimisation workflow

Benefits

- Improve pit design practicality
- Increase project NPV potential
- Generate mineable phase designs
- Accelerate pit optimisation workflows



Maptek™ Evolution

Evolution Origin Medium to long term scheduling

Evolution Origin generates practical scheduling scenarios from Life-of-Mine (LOM) down to medium-term planning horizons.

Key Features

- Integrated haulage and blending optimisation
- Waste landform optimisation
- Detailed operational scheduling
- Direct integration with Vulcan
- Apply optimisation policies from Evolution Strategy

Benefits

- Bridge the gap between design and scheduling
- Improve operational practicality
- Generate more achievable mine schedules
- Support integrated planning workflows

Evolution Epoch Short term operational planning

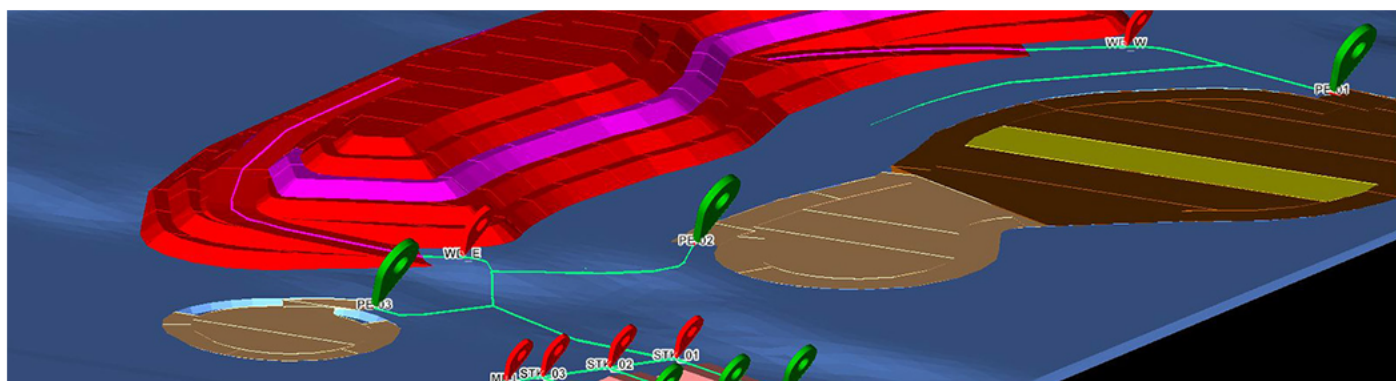
Evolution Epoch is a dedicated short term scheduling tool for managing mining activities, equipment and task dependencies.

Key Features

- Detailed mining activity scheduling
- Equipment and task dependency management
- Flexible mining sequence definition
- Supports solids and block model workflows
- Practical scheduling up to 18 months

Benefits

- Improve operational scheduling accuracy
- Increase short term planning flexibility
- Better coordination of mining activities
- Support practical production execution





Laser Scanners (NS4, R3 Series)

3D laser scanning & imaging for surface, underground and mobile workflows

Maptek laser scanners combine rapid spatial data capture, high-resolution imagery, and advanced modelling workflows to support safe, accurate, and efficient surveying operations.

Captured data provides reliable topographic and volumetric information for mine planning, geotechnical analysis, operational reporting, and decision-making.



NS4

Long-range, high-accuracy laser scanning for versatile survey workflows, perfect fit for underground & above ground situations.



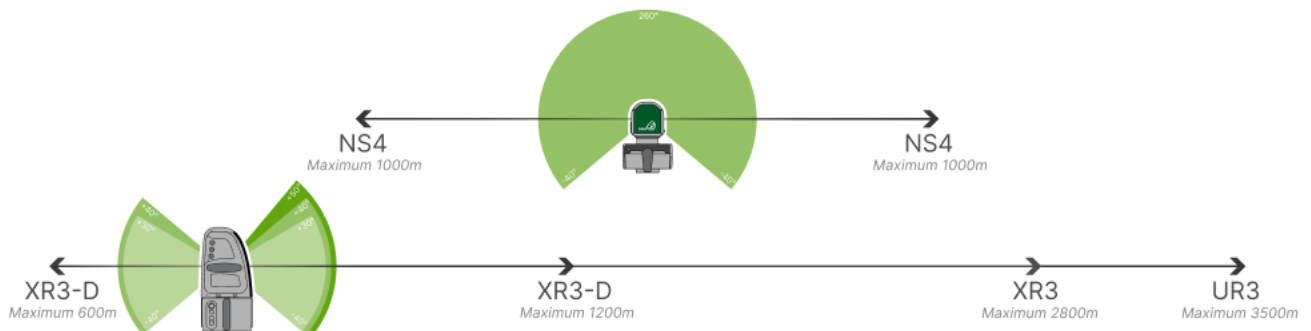
XR3 / XR3-D

Extra long range or dual-direction scanning for demanding survey workflows



UR3

Ultra long-range scanning capability for large mining and civil engineering projects





Specification Comparison

	NS4	UR3	XR3-C/CT	XR3-D/CD	SR3
PHYSICAL					
Weight	4.3 kg	12.1 kg	10.1 kg	10.3 kg	10.3 kg
Protection Class	IP65	IP65	IP65	IP65	IP65
Battery Runtime	2.0 hr Li-ion	2.0 hr Li-ion	2.0 hr Li-ion	2.0 hr Li-ion	2.0 hr Li-ion
Levelling System	-	20" fine	20" fine	20" fine	20" fine
Internal GNSS	-	L1 GPS + QZSS	L1 GPS + QZSS	L1 GPS + QZSS	L1 GPS + QZSS
LASER PERFORMANCE					
Max. Range	1000 m	3500 m	2800 m	1200 m	600 m
Min. Range	-	5 m	2.5 m	2.5 m	1 m
Accuracy	4 mm	5 mm	5 mm	5 mm	4 mm
Max. Acq. Rate (Ultra)	800 kHz	320 kHz	400kHz	400 kHz	400 kHz
Dual Pulse Mode	-	-	-	Yes	-
SCAN COVERAGE					
Horizontal Range	360°	360°	360°	360°	360°
Upper Elevation	+40°	+40°	+50°	+60°	+90°
Total Vertical Extent	260°	80°	90°	100°	130°
CAMERA					
Camera Type	20 MP CMOS HDR Panoramic (all models)				
Panorama Resolution	70 MP HDR	147 MP	147 MP	147 MP	147 MP
Vertical Camera FOV	-	60°	60°	60°	60°
SPECIAL FEATURES					
Built-in LED Illumination	4000 lm	-	-	-	-
Integrated Telescope	-	-	XR3-CT only	-	-
Laser Aimer	-	-	-	-	635 nm
Controller	Mobile (Android/iOS)	Ruggedised wireless tablet			
NS4	UR3	XR3-C/CT	XR3-D/CD	SR3	
Compact & portable. Best for short-range, underground, or mobile scanning with built-in lighting.	Maximum range (3,500 m). Ideal for large open-pit surveys and long-distance surface mapping.	Only model with integrated 14x telescope for precision target sighting and survey-grade work.	Dual-pulse capability for better performance in dusty or particulate-heavy environments.	Widest vertical FOV (+90°). Purpose-built for underground tunnels, voids, and cavity scanning.	

NS4

Laser scanner for underground and above ground applications.
Smaller, Smarter, Connected.



General

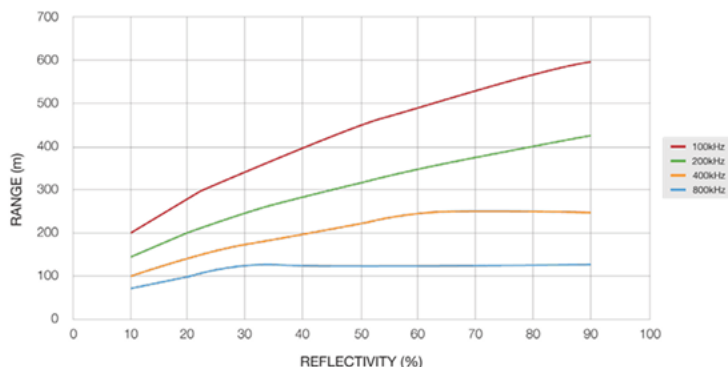
Size	242mm (H) x 222mm (W) x 170mm (D)
Weight	4.3kg, without battery (4.9kg with battery)
Battery	Interchangeable, Li-ion 2.0 hours operation
Fine levelling	Yes
Constant operating temp.	0 to +50°C (short exposure* -40° to +50°C)
Storage temp.	-40° to +70°C
Internal GNSS receiver	RTK receiver with corrections via external source
Protection class	IP65 (IEC 60529)
Data recorder	256 GB internal memory, external smart device connectivity
Mounting	Internal 5/8" UNC thread and T-bolt slots
Carry case	Customised case, optional backpack available

Scanner

Maximum range [†]	1000m
Minimum range [†]	1m
Range accuracy [‡]	4mm
Repeatability [‡]	±4mm
Exit aperture	<8mm
Acquisition rate	100kHz 200kHz 400kHz 800kHz
Product laser class	Class 1 IEC60825-1:2014
Wavelength	Near IR
Angular scanning range	130° vertical (-40° to +90°) or 260° (over the top), 360° horizontal
Lighting	Front internal LEDs for underground scenes, 4x 8W at 1000lm

Digital Camera

Type	20 MP CMOS HDR digital panoramic camera
Pixel resolution	70 MP
Angular range	130° vertical, 360° horizontal
Exposure control	User definable
Lens	Miniature 4K ultra-wide lens



* Time to perform a 20 minute scan.
† Firing at 100kHz for high resolution scans.
Based on returns from flat normal targets and good atmospheric conditions.
‡ Under Maptek test conditions at 65 metres.

Information subject to change.
Correct at March 2026.



Maptek XR3

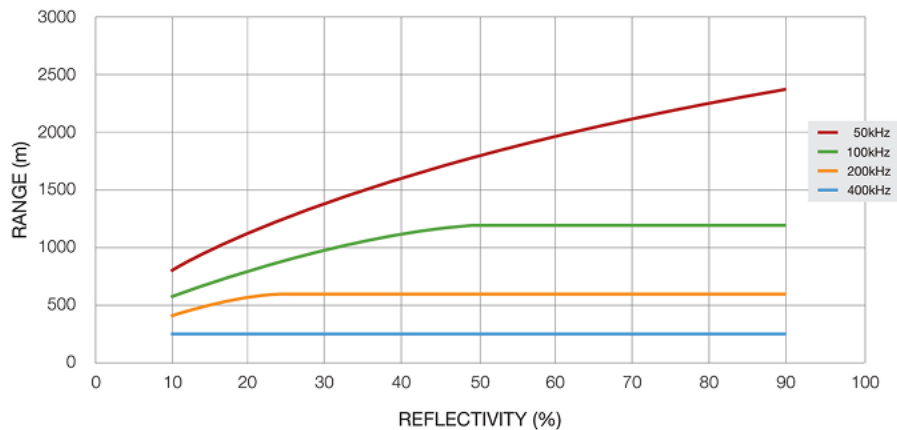


General

Size	390mm x 192mm x 318mm
Weight	10.1kg, without battery
Battery	Interchangeable, Li-ion 2.0 hours operation
Fine levelling	20"
Coarse levelling	1° over any tilt
Constant operating temp.	0 to +50°C (short exposure* -40° to +50°C)
Storage temp.	-40° to +70°C
Compass ¹	±1°
Internal GNSS receiver	L1 GPS + QZSS
Quality certified	ISO 9022
Protection class	IP65 (IEC 60529)
Data recorder	Onboard USB plus wireless ruggedised tablet controller
Mounting	Internal 5/8" UNC thread & Tbolt slots
GPS mount	External 5/8" UNC thread
Carry case	Customised case

Scanner

Maximum range [†]	1200m off reflector
Minimum range [†]	2.5m
Range accuracy [‡]	5mm
Repeatability [‡]	±4mm
Exit aperture	<8mm
Beam divergence	0.25mrad
Acquisition rate	400kHz 200kHz 100kHz 50kHz
Product laser class	Class 1 IEC60825-1:2014
Wavelength	Near IR
Intensity measurement	Yes
Angular step selectable	0.2° to 0.0125°





Maptek UR3

Ultra long range laser scanner for monitoring and mobile scanning with Maptek Drive

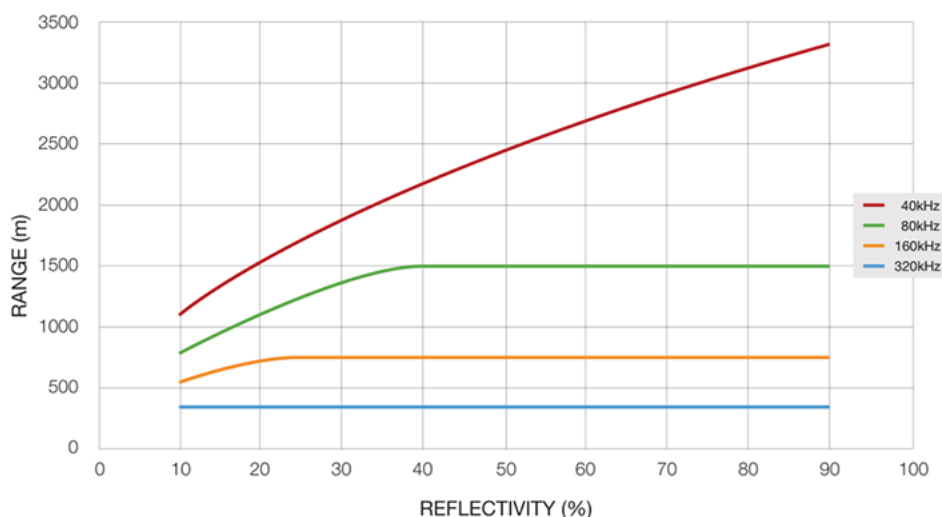


General

Size	390mm x 192mm x 344mm
Weight	12.1kg, without battery
Battery	Interchangeable, Li-ion 2.0 hours operation
Fine levelling	20"
Coarse levelling	1° over any tilt
Constant operating temp.	0 to +50°C (short exposure* -40° to +50°C)
Storage temp.	-40° to +70°C
Compass ¹	±1°
Internal GNSS receiver	L1 GPS + QZSS
Protection class	IP-65 (IEC 60529)
Data recorder	Onboard USB plus wireless ruggedised tablet controller
Mounting	Internal 5/8" UNC thread & Tbolt slots
GPS mount	External 5/8" UNC thread
Carry case	Customised case

Scanner

Maximum range [†]	3500m
Minimum range [†]	5m
Range accuracy [‡]	5mm
Repeatability [‡]	±4mm
Exit aperture	<10mm
Beam divergence	0.4mrad
Acquisition rate	320kHz 160kHz 80kHz 40kHz
Product laser class	Class 1 IEC60825-1:2014
Wavelength	Near IR
Intensity measurement	Yes
Angular step selectable	0.2° to 0.0125°
Angular scanning range	80° vertical, 360° horizontal

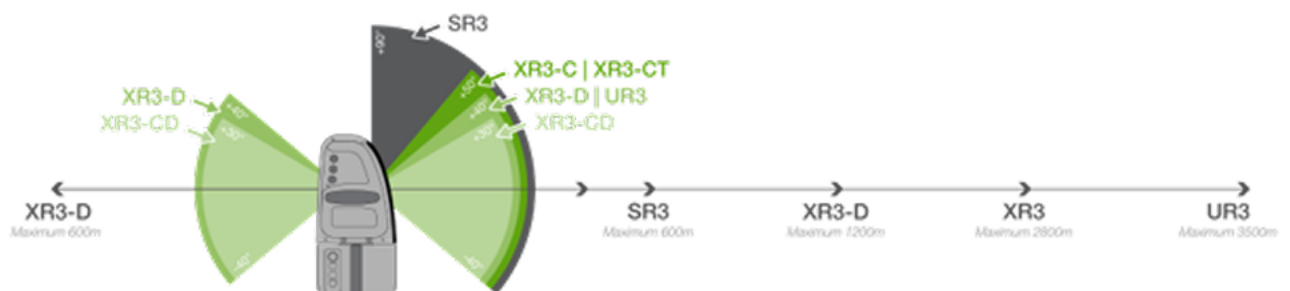




R3 MKII Series



Laser Scanner	Config. Name	Description
UR3	UR3	UR3 scanner
	UR3 M20	UR3 cold climate scanner
XR3	XR3-CT	XR3 scanner with camera & telescope
	XR3-C	XR3 scanner with camera
	XR3-CT M20	XR3 cold climate scanner with camera & telescope
	XR3-C M20	XR3 cold climate scanner with camera
XR3 dual window	XR3-D	XR3 dual window scanner
	XR3-CD	XR3 dual window scanner with camera
SR3	SR3-CL	SR3 scanner with camera and laser aimer





R3 MKII Series

Scanner Window Configurations by Model

Scanner model	Window configuration	Description
UR3 XR3-CT XR3-C	 Single	Standard window with model-specific scanning elevation extents.
XR3-CD XR3-D	 Dual	Dual front- and rear-facing scanning windows. The maximum elevation extent is model-specific.
SR3	 Zenith scanning	Single window permits scanning up to +90° from the scanner's level plane.





Maptek™ PointStudio

PointStudio processes and analyses point cloud data from Maptek scanners, UAVs and other LiDAR systems. It supports modelling, volumetrics, geotechnical analysis and design conformance workflows.

Key Benefits

- Fast point cloud registration and modelling
- Intuitive CAD-style workflow
- Automated workflows and standardised processes
- Advanced geotechnical and volumetric analysis
- Export to 3D PDF and industry-standard formats

Core Features

- Flexible scan registration tools
- Surface and solid modelling
- Geotechnical analysis tools
- Stockpile volume calculations
- Design conformance analysis
- Large dataset visualisation
- Multi-language interface

PointStudio Add-ons

Photogrammetry Tools

Generate textured surfaces and orthomosaic outputs from drone or mobile imagery.

Features

- Generate dense point clouds from images
- Georeference drone datasets
- Automated target recognition
- Fast batch processing workflows

Benefits

- Automated target identification
- Maximum point-cloud accuracy
- Fast 3Dflow processing

Design Conformance

Analyse differences between design and as-built surfaces.

Features

- Underdig and overdig reporting
- Volume variance reporting
- Pit wall conformance visualisation
- PDF reporting with custom templates

Benefits

- Better operational decision support
- Improved safety and risk management
- Faster reporting workflows



PointStudio Add-ons

Geotechnical Suite

Advanced geotechnical analysis and structural interpretation tools.

Features

- Stereonets and rose diagrams
- Kinematic analysis
- Structural extraction from point clouds
- Discontinuity spacing analysis
- Scanline analysis

Benefits

- Better rock mass understanding
- Improved geotechnical interpretation
- Powerful 3D visualisation workflows

Haul Road

Road and berm compliance analysis for safer operations.

Features

- Road width and grade analysis
- Berm height and width checks
- Crossfall and camber analysis
- Design conformance visualisation

Benefits

- Improve haul road safety
- Reduce operational risk
- Support productivity improvements

Fragmentation Analysis

3D fragmentation analysis directly from dense point cloud data.

Features

- Rock size distribution analysis
- Fragmentation reporting
- 3D visualisation tools

Benefits

- Optimise blasting performance
- Improve crusher throughput
- Reduce haulage and processing costs

Inter-Ramp Compliance Reporting

Analyse pit wall and catch bench compliance against design tolerances.

Features

- Bench face angle analysis
- Catch bench width reporting
- Colour-coded compliance visualisation
- Detailed cross-section reporting

Benefits

- Improve slope safety assessment
- Support geotechnical decision making
- Faster compliance reporting



PointStudio Add-ons

Underground Tools

Specialised underground point cloud processing workflows.

Features

- Underground scan registration
- Mesh and service filtering
- Overbreak and underbreak analysis
- Centreline and boundary extraction

Benefits

- Faster underground modelling
- Cleaner underground surfaces
- Improved conformance reporting

Rock Bolt Tools

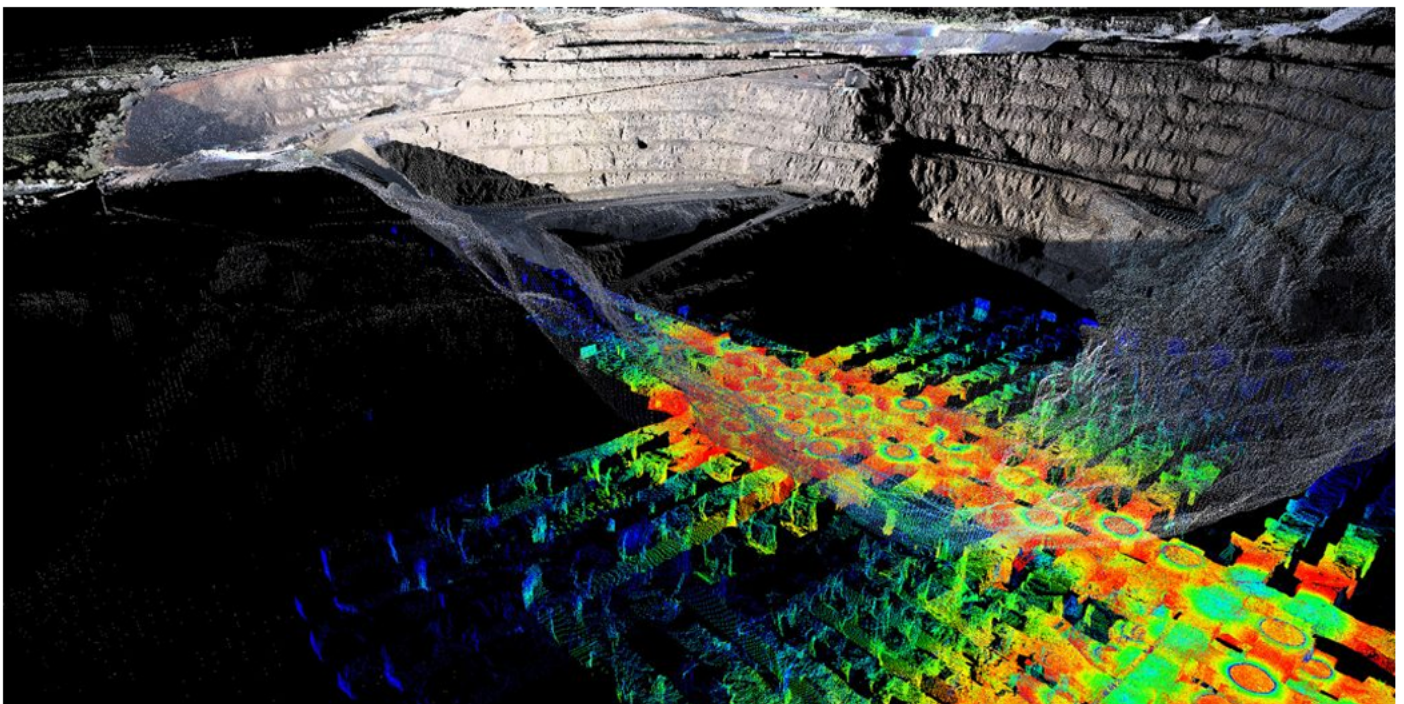
Analyse underground rock bolt placement and distribution.

Features

- Automated bolt extraction and analysis
- Spatial distribution reporting
- 3D bolt visualisation

Benefits

- Improve underground safety
- Validate support installation
- Reduce unnecessary bolt placement costs





Maptek™ Drive



Continuous mobile laser scanning

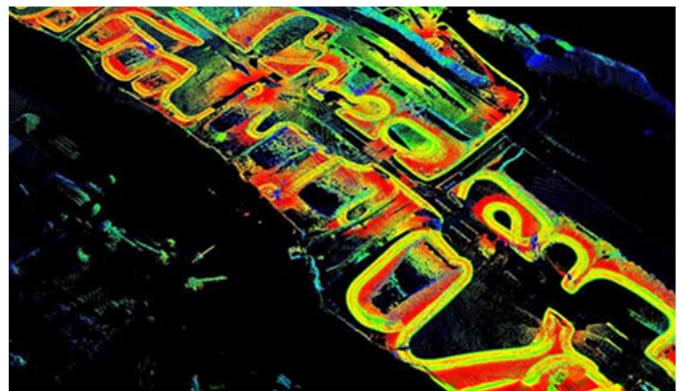
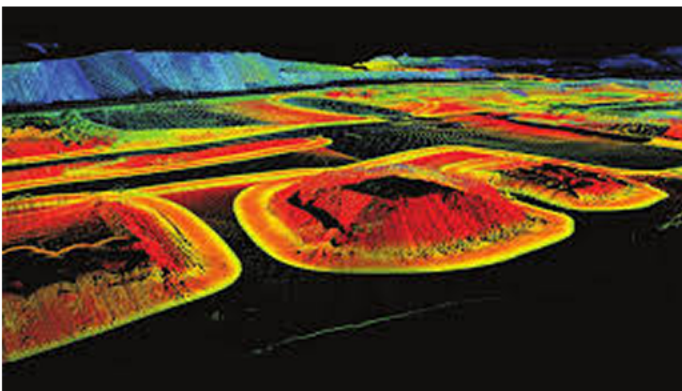
Maptek Drive enables continuous laser scan acquisition from moving vehicles for mining, quarry and civil survey applications. Using INS georeferencing, data is automatically positioned and visualised in real time inside the vehicle cabin.

Key Capabilities

- Fast coverage for haul roads, stockpiles and highwalls
- Real-time georeferenced point cloud capture
- Reduce survey downtime and field setup
- Flexible deployment using standard site vehicles
- Supports stop-go and continuous scanning workflows

Common Applications

- Stockpile volumetrics
- End-of-month reconciliation
- Top of coal mapping
- Haul road survey
- Highwall mapping
- Surface model updates





Maptek™ FieldHHC

Field scan registration & verification

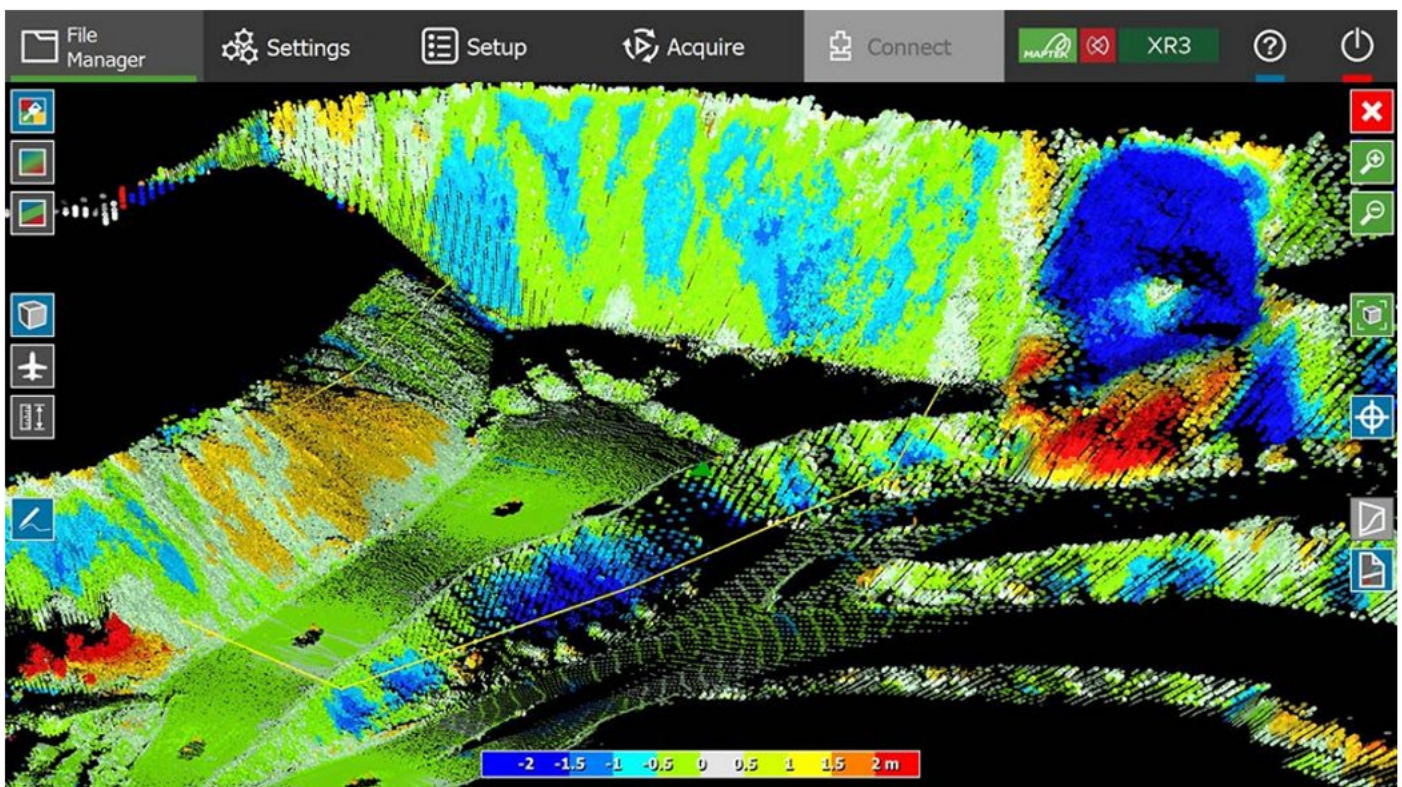
FieldHHC enables field teams to register, verify and review scans directly onsite before leaving the field.

Key Benefits

- Real-time scan review and validation
- Reduce rework and missed capture
- Faster design conformance checks
- Cleaner office handover workflows

Core Features

- Field registration workflows
- Dynamic 3D scan visualisation
- RTK GPS integration
- Onsite measurement and inspection
- Cross-section reporting tools





Maptek™ GeoSpatial Manager

Automated surface management

GeoSpatial Manager automatically updates and manages survey surfaces to maintain a single source of truth across mining operations.

Workflow

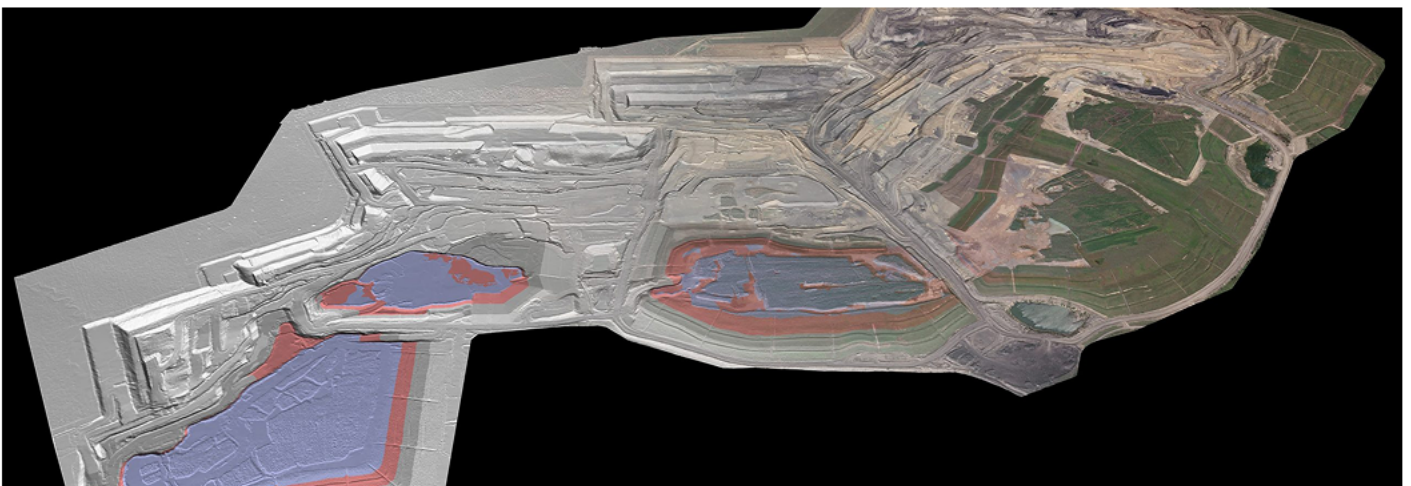
1. Import and merge survey surfaces
2. Timestamp updated surfaces
3. Share latest surfaces across teams
4. Analyse conformance and volumetrics

Key Benefits

- Automated as-built updates
- Centralised surface management
- Faster collaboration across teams
- Cut-and-fill volume analysis
- Unlimited user access under one licence

Core Features

- Surface comparison tools
- Conformance visualisation
- Export to downstream planning systems
- Highlight survey priority areas





Maptek™ Sentry

LiDAR-based deformation monitoring

Sentry combines Maptek laser scanners and monitoring software to detect and report ground movement in mining and civil environments.

Applications

- Open pit monitoring
- Underground subsidence monitoring
- Tailings dam monitoring

Features

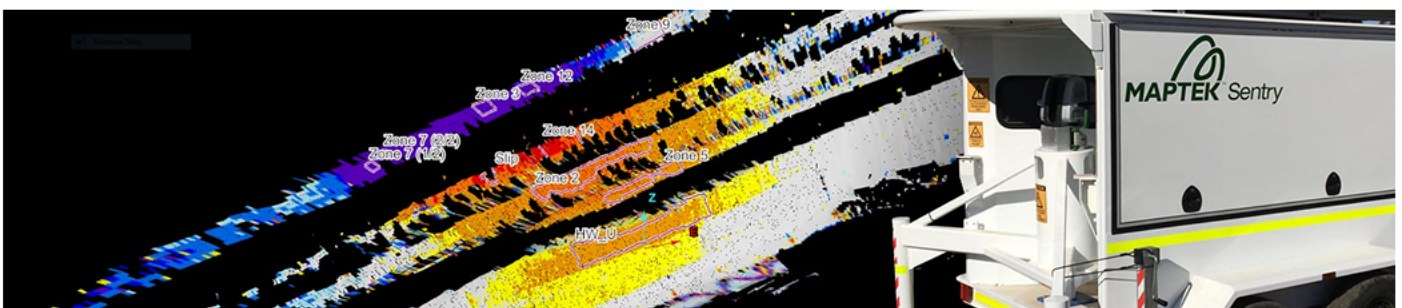
- Multi-zone monitoring
- Heatmaps for displacement and velocity
- Timelapse movement analysis
- Near real-time notifications
- 3D visualisation and reporting

Key Benefits

- Real-time alarming and notifications
- Continuous 24/7 monitoring
- Reliable operation in extreme environments
- Accurate displacement monitoring

Core Features

- Multi-zone monitoring
- Heatmaps for displacement and velocity
- Timelapse movement analysis
- Near real-time notifications
- 3D visualisation and reporting





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Waste Landform

Environmental Management

Exploration

Geological Modelling

Slope Monitoring

Geotechnical Analysis

Mine QC

Mine Design

Underground Applications

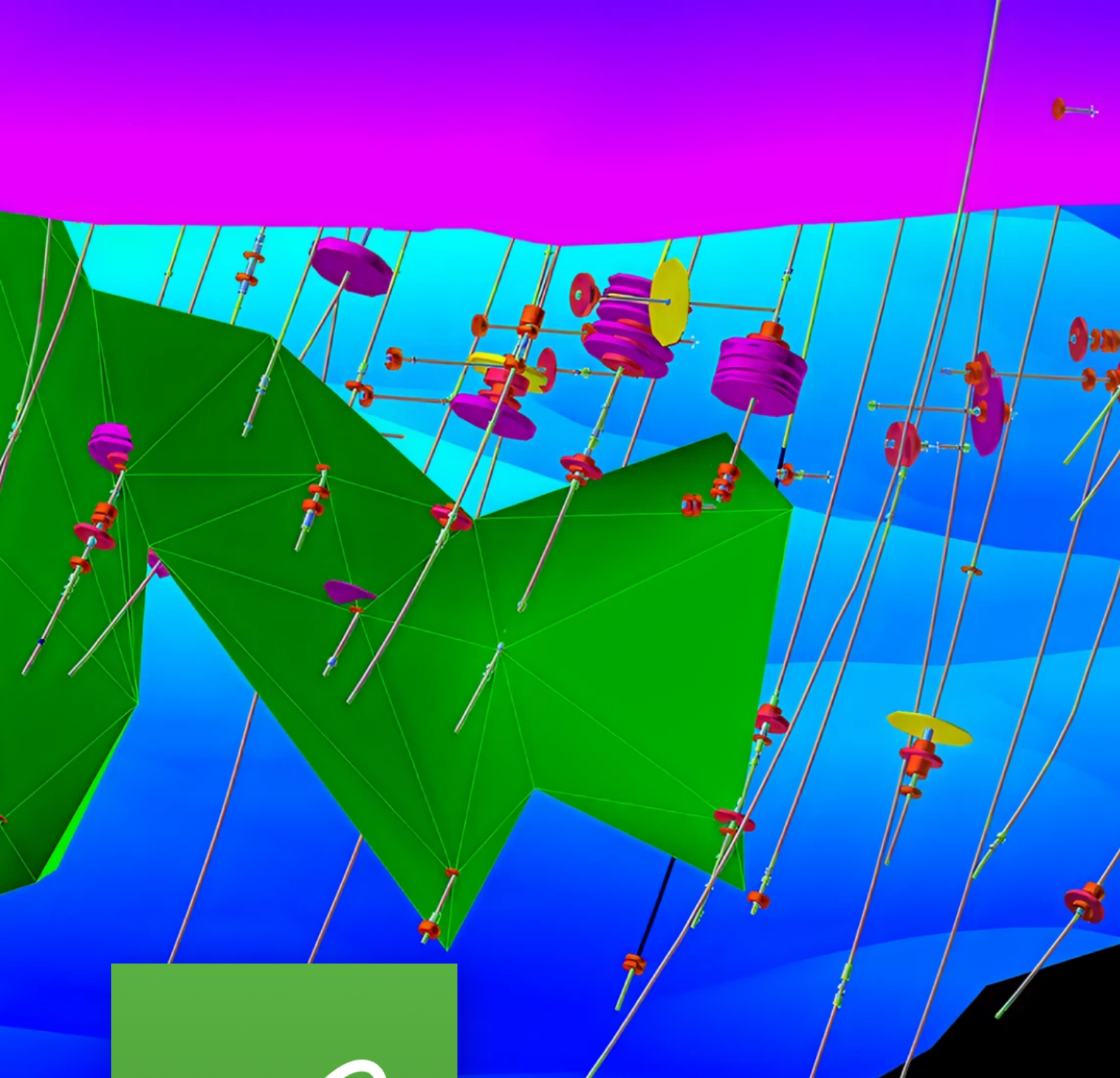
Drill & Blast

Grade Control

Optimisation

Scheduling

Survey



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