[Scanners Contents](#)[Contact](#)

Maptek laser scanners combine fast accurate sensing, high resolution digital imagery and powerful modelling software for safe, efficient site survey.

Maptek R3 mkII series laser scanner data capture is supported by high quality image acquisition that allows survey teams to be confident that accurate, current topographic and volumetric data is guiding mine planning and geotechnical applications.

Imagery and lidar scan points are acquired simultaneously thanks to the built in HDR digital camera, ensuring high resolution images are immediately available for geotechnical analysis and visualisation.

Maptek FieldHHC combines a powerful, simple GUI with intuitive features for controlling survey workflow in the field. It follows standard survey setup and scan georeferencing, enabling users to enjoy the most efficient survey experience.

Maptek laser scanning solutions are founded on our 40 years of experience in mining technology, and are supported and serviced by our team of survey and mining specialists.

[Contact Maptek](#)

Internal HDR camera

Internal high dynamic range 147 megapixel panoramic camera captures superb quality digital imagery.



High impact visualisation

Supports geotechnical analysis, geological mapping and high impact communication with stakeholders.



Optimal workflow

Queued scans, dedicated FieldHHC controls and data workflows ensure maximum field efficiency.



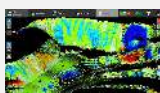
Flexible deployment

Laser scanner setup on bollard or vehicle-mounted for stop-go or continuous survey.



Value-adding solutions

Value-in-use functionality includes design conformance, slope monitoring, fragmentation analysis and reporting add-ons.



Mine workflows

Automated, built-in survey workflows for surveyors, geotechnical engineers, geologists



and mining engineers.

Features

- HDR 147MP panoramic camera
- Snapshot imagery
- Selectable multi-point returns
- IP65 protected for tough conditions
- Automated, streamlined survey registration
- FieldHHC for survey workflows
- View CAD data on scans
- Web-enabled remote survey control

Reasons to use

- Ergonomic, portable design
- Integrated, intuitive survey workflow
- Flexible mounting options
- Most efficient field to finish performance
- Advanced scan registration for accurate results
- Hardware and software developed concurrently
- ISO 9001 quality certified manufacture
- Warranty and service protection



Maptek Mine Measurement Solutions



Maptek PointStudio software is an intuitive point cloud processing and modelling package for mining, civil, geological and survey applications.

Maptek PointStudio



Maptek Sentry provides a safe, laser based spatial solution for monitoring surface stability and convergence above and below ground.

Maptek Sentry

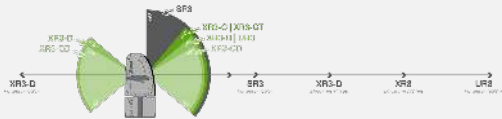


Maptek Drive allows the continuous acquisition of laser scan data with a Maptek laser scanner mounted on a moving vehicle.



Maptek FieldHHC provides a superior survey experience for controlling, acquiring, registering and processing laser scans.

Maptek FieldHHC



Specifications
R3 MkII laser scanners at a glance

Applications
Choose the scanner that meets your needs

Specifications

	UR3-C	XR3-CT	XR3-C	XR3-D	XR3-CD
Range	5 - 3500m	2.5 - 2800m	2.5 - 2800m	2.5 - 1200m	2.5 - 1200m
Accuracy	5mm	5mm	5mm	5mm	5mm
Repeatability	4mm	4mm	4mm	4mm	4mm
Data acquisition rate	40kHz	50kHz	50kHz	50kHz	50kHz
	80kHz	100kHz	100kHz	100kHz	100kHz
	160kHz	200kHz	200kHz	200kHz	200kHz
	320kHz	400kHz	400kHz	400kHz	400kHz
Camera	✓	✓	✓		✓
Telescope		✓			
Vehicle mounted operation	✓	✓	✓	✓	✓
Class 1 laser pointer					
Dual window				✓	✓
Cold climate option	✓	✓	✓		

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- Case Studies

Dual window option

The XR3-D dual window system captures data from both sides simultaneously, halving the data acquisition time when scanning from the safety of a moving vehicle.

Survey crews can scan surrounding terrain in both directions while travelling to capture specific mine measurement data for seamlessly acquiring haul roads, gradients and infrastructure.

Cold climate option

The XR3 and UR3 MkII cold climate laser scanners allow operations to conduct survey and monitoring tasks for hours in extremely low temperature conditions.

Systems are developed to operate at temperatures down to -20°C, with a limited operating time below that. A removable neoprene jacket protects the laser scanner against wind chill.