



ZEB FAMILY

The smart way to map and
understand spaces



+61 8 6189 8709



INFO@CARONI.COM.AU



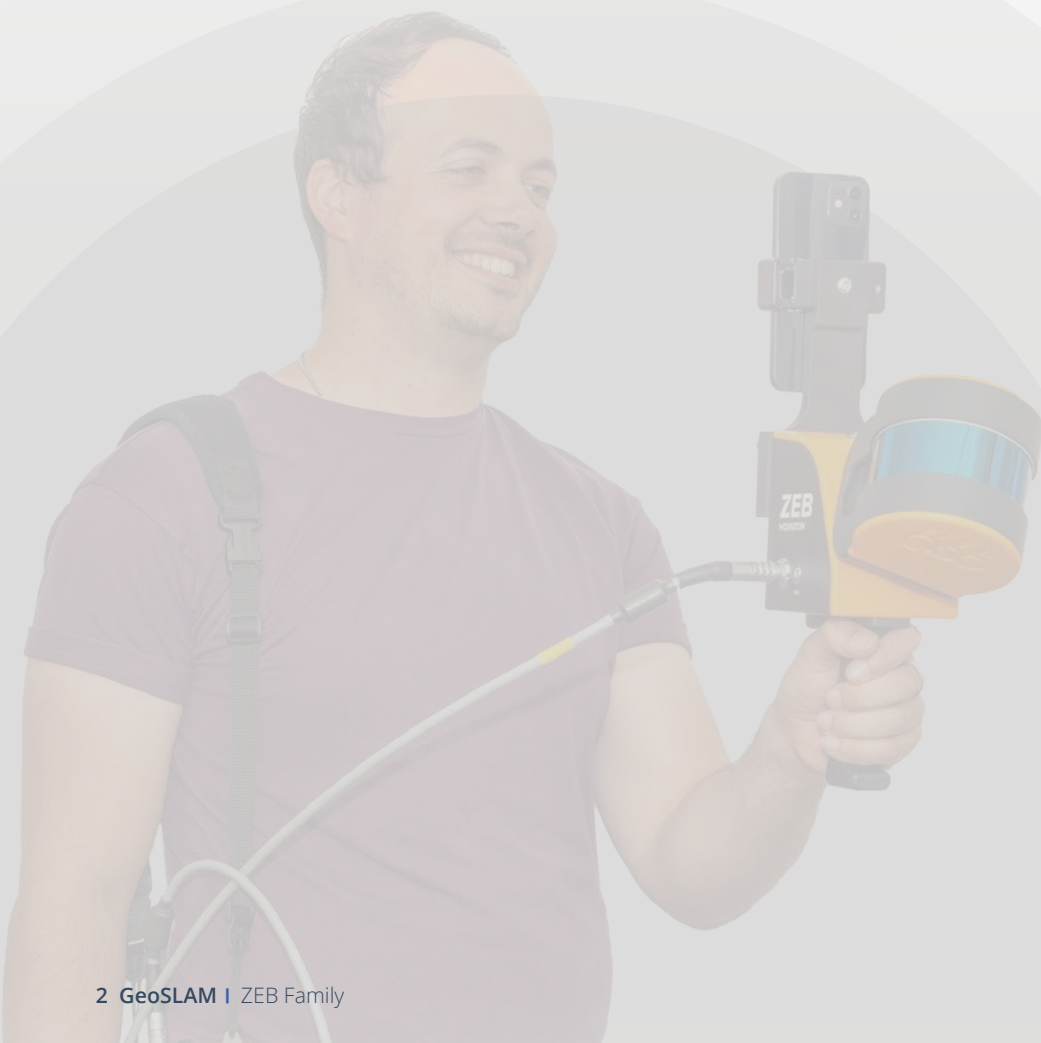
WWW.CARONI.COM.AU



About GeoSLAM

GeoSLAM is the global market leader in “go-anywhere” 3D mobile mapping technology. Highly versatile and adaptable to all environments - especially spaces that are indoor, underground or difficult to access - our technology provides accurate 3D mapping without the need for GPS. The ZEB Family solutions are easy to use and within minutes, customers can build a highly accurate 3D model of their environment.

We design and manufacture world-leading technology solutions that deliver rapid results, saving time and money.



ZEB

VISION

About:

With simple and easy deployment, the **ZEB Vision** can be retro fitted to the **ZEB Horizon** or bought as one unit to capture colourised data and 360° panoramic images in minutes.

4K resolution increases feature definition of objects within the point cloud, allowing for new perspectives on data. All the photos and data you capture are all owned and managed by you, keeping it safe, simple and secure.

Software functionality

Walk-through bubble view

Point cloud visualisation

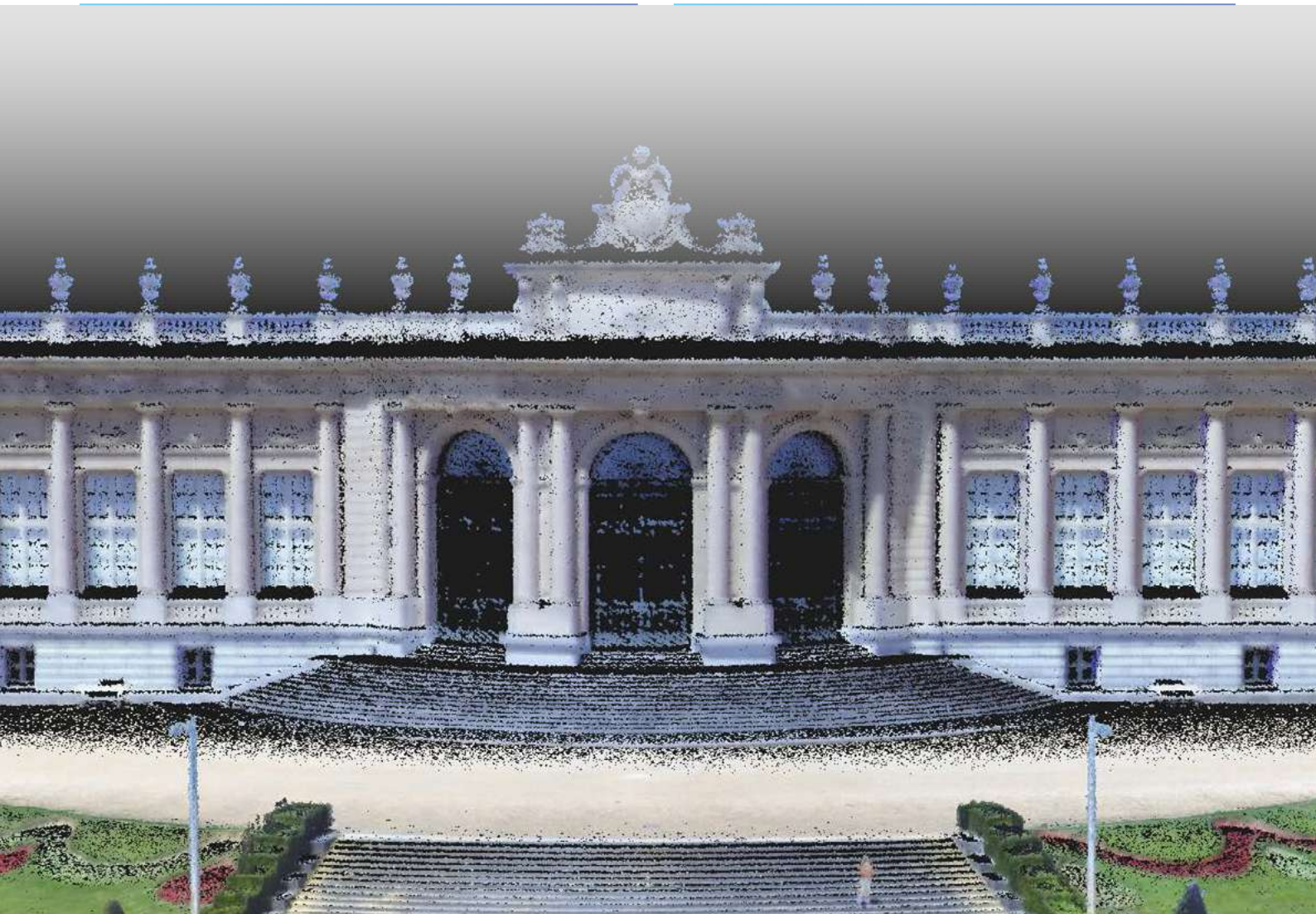
3D measurements on imagery

Integration with Draw 4.0

Compatible with third party softwares

Camera specification

Resolution	4K Panoramic
Capture rate	1 FPS
Colour	RGB



ZEB

HORIZON RT

About:

Upgrade your **ZEB Horizon** and get real time feedback on your data capture so you leave site with full confidence. Compatible with most mobile phones, you can see a sample of your point cloud being created as you walk.



About:

Your tool to capture, view and understand the world around you. Great for indoor and outdoor use, including spaces where features are positioned further apart. Lightweight and rugged, simple to use, fast to capture and easy to process giving you the most accurate information you need to make the most important decisions.



Technical specification

Range	100m
Laser	Class 1 / λ 903nm
FOV	360° x 270°
Frequency	100Hz
Protection class	IP 54
Processing	Post
Datalogger carrier	Backpack or shoulder strap
Scanner weight	1.45kg
Datalogger weight (incl. battery)	1.4kg
Colourised point cloud	✓ *
Intensity	✓
Real time display	✓ **
Scanner points per second	300,000
No. of sensors	16
Vertical angular resolution	2°
Horizontal angular resolution	0.38°
Relative accuracy	Up to 6mm ***
Raw data file size	25 - 50MB /minute

Software included: GeoSLAM Connect

*With ZEB Vision, purchased separately

**With ZEB Horizon RT, purchased separately

***When processing data in GeoSLAM Connect

ZEB

REVO RT

About:

Scan, process and track your progress as you go. The **ZEB Revo RT** is handheld, lightweight and easy to use, allowing you to rapidly build highly accurate 3D point clouds within minutes, while on the move. Gain real-time insight into your scan, see the areas you've covered (or missed) and the route you've taken before you leave site. Simple, comprehensive SLAM for everyone.

Technical specification

Range	30m (features <15m)
Laser	Class 1 / λ 905nm
FOV	360° x 270°
Frequency	100Hz
Protection class	IP 54
Processing	Real time
Datalogger carrier	Shoulder strap
Scanner weight	1.05kg
Scanner handle thread	1/4-20 UNC
Datalogger weight (incl. battery)	1.4kg
Colourised point cloud	✓ *
Intensity	✗
Remote operation of scanner	✓
Scanner points per second	43,000
No. of sensors	1
Relative accuracy	Up to 6mm **
Raw data file size	100 MB /minute

Software included: GeosLAM Connect

*With ZEB Cam

**When processing data in GeoSLAM Connect





About:

The **ZEB Go** is your first step in SLAM handheld technology, so whether it's the first time you've looked at digital surveying, or you want each of your sites equipped with the smartest SLAM, the **ZEB Go** is the place to start.

Technical specification

Range	30m (features <15m)
Laser	Class 1 / λ 905nm
FOV	360° x 270°
Frequency	40Hz
Protection class	IP 64
Processing	Post
Datalogger carrier	Backpack
Scanner weight	950g
Scanner handle thread	1/4-20 UNC
Datalogger weight (inc. battery)	1.7kg
Colourised point cloud	✓ *
Intensity	✗
Scanner points per second	43,000
No. of sensors	1
Relative accuracy	1 - 3cm **
Raw data file size	100 MB /minute
Datalogger internal memory	128GB



Software included: GeoSLAM Connect

*With ZEB Cam

**Environment dependant

ZEB

ACCESSORIES

ZEB Horizon accessories



ZEB Vision



ZEB Locate



ZEB Discovery



ZEB Guard

(ZEB Horizon and ZEB Revo RT)



Car mount



UAV Mount

All ZEB accessories



ZEB Pano



ZEB Cam



Cradle



Pole



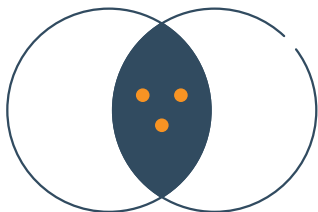
Next generation SLAM software

Your data is now automatically processed, cleaned and your chosen workflows applied with **GeoSLAM Connect**

Powered by the world-leading SLAM algorithm, the software also includes visualisation, additional processing, filtering and workflow automation functionality, as well as integration to third party applications. With the press of a single button, your data will be automatically processed, saved in a folder of your choice, and prepared for the next step of your workflow.

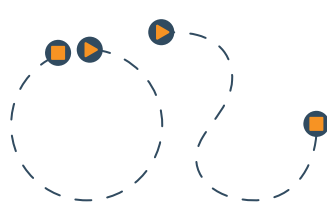
What's included:

- ✓ Stop & Go Georeferencing
- ✓ Stop & Go Alignment
- ✓ Point cloud cleaning:
 - Range filtering
 - Decimation
 - Outlier removal
- ✓ 3D viewer
- ✓ Workflow scripts
- ✓ Point cloud measurements
- ✓ Colourisation (with **ZEB Vision**)



Stop and Go Alignment

Common static points are captured over a couple of scans meaning that these datasets can be automatically aligned.



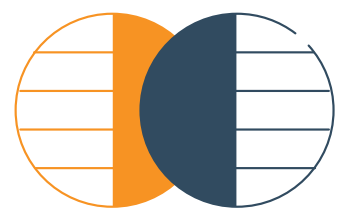
Closed & Open Loop Georeferencing

Match the scan data from a **ZEB Locate** system with GPS data to georeference the point cloud.



Stop and Go Georeferencing

Known control points are captured during a scan and automatically matched to the internal scanner coordinates.



SLAM Environment Presets

Environmental presets based on common data capture scenarios can be selected in order to optimise SLAM processing.



Optional **GeoSLAM Draw** software includes simple to use tools for quickly extracting floor plans and sections from point cloud data. It's available in several sector packages.

- ✓ Create 2D plans, sections and elevations from 3D pointcloud data in minutes.
- ✓ Automatic vectorisation of 2D lines allows for rapid floorplan creation.
- ✓ Publish, share and collaborate with multiple stakeholders.
- ✓ Easily export data for use in third party CAD and GIS software packages.
- ✓ Provides survey-grade data accuracy.

Choose your package:



Start

All your basic needs in a single package.



Plan

Analysis of layouts and sections for CAD users.



BIM

Target based registration for BIM users.



Mining

Collect volume data for mining and stockpiling.



Pro

Ideal for point cloud flexibility.



Setting you up for success

GeoSLAM Care makes sure you get the most from your ZEB products.

Combining the very best in after sales, **GeoSLAM Care** is a simple and comprehensive support package to make sure you have all the resources you need, you'll also have access to our team of support engineers should you need any help.





+61 8 6189 8709

Level 11, 125 St Georges Tce

Perth, WA 6000

www.caroni.com.au