WELCOME PACK

EVO

ZENMUSE L1

WWW.GEOCUEAUSTRALIA.COM
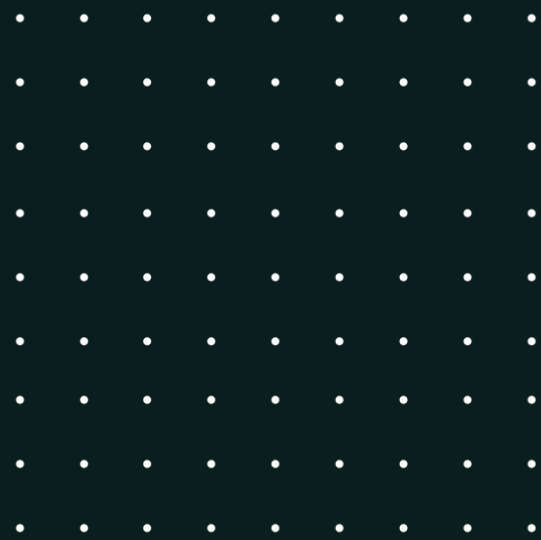
TABLE OF CONTENTS

WHAT'S INSIDE

Welcome to your 'EVO Journey', it is great to have you join us. We feel that the best way that we can show you our appreciation for your purchase and faith in GeoCue Australia, is to deliver you with the best delivery, training, and support possible. This document and our training stand as a testament to our commitment to you.

To begin with, this Welcome Pack outlines the next steps to be followed in your EVO Journey as well as the resources, including staff, that you will have access to.

Later in this welcome pack, we'll take you through setting up and training with regard to the Zenmuse L1 and EVO software including post-processing.

INFORMATION FOUND WITHIN OUR WELCOME PACK:

- Meet our Team
- What to expect
- Hardware
  - Brief L1 overview
- Software Overview
- Steps to get you started
- DJI Zenmuse L1 Workflow
- Advanced Training
- Support
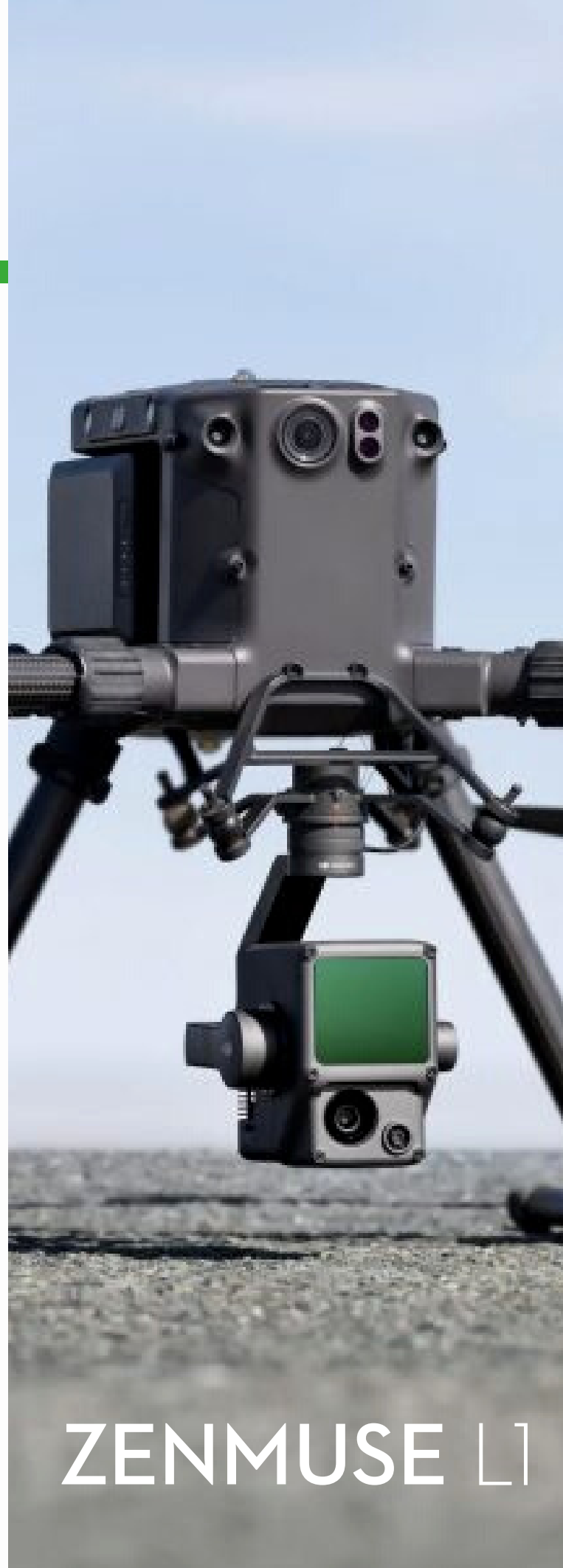
ZENMUSE L1

Our company culture stems from the unrelenting desire to achieve great things with great people. This starts with employing genuinely good, enthusiastic, and capable people and giving them the tools and space to succeed. All else follows from these beginnings.

Mark Hickey

General Manager
and Director

OUR TEAM

LET OUR TEAM HELP YOUR TEAM THRIVE

With decades of experience between us and a true passion for the industry, we combine to bring something significant towards the goal of above and beyond customer support.

Our staff are involved with our partners from the initial contact through to product delivery, training, support and troubleshooting.

Backing up the local team, we are very well supported by GeoCue Group USA.

Mark Hickey
GM & Director

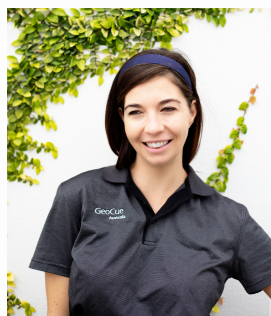**Paul Salmon**
East Coast Sales

Brad Redding
Operations Associate

Chris Kelly
Internal Sales

Stephen Glasson
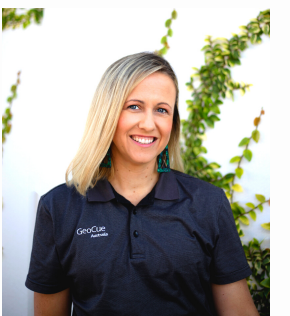Customer Support

Brad Hickey
Service & Maintenance

Carla Myburgh
Marketing Manager

Samantha Hickey
Social Media Manager

Lisa Mager
Office Manager

WHAT TO EXPECT

We offer structured training courses for all GeoCue software and hardware offerings. This covers a broad range of LiDAR mapping workflows. Regardless of your organization's experience.

CLARITY

You can expect clarity regarding the system, our company & the processes which will follow.

CONFIDENCE

That you have trust in the solutions that we provide and confidence that you have engaged with an appropriate partner is paramount to us.

EMPOWERED

Our aim is that you are empowered through our association which allows you to fully utilise our systems to best meet your business needs.

SUPPORT

Our intention is that you will find GeoCue Australia staff to be very accessible and helpful. Further to this you should also understand that you have access to a broad network of support.
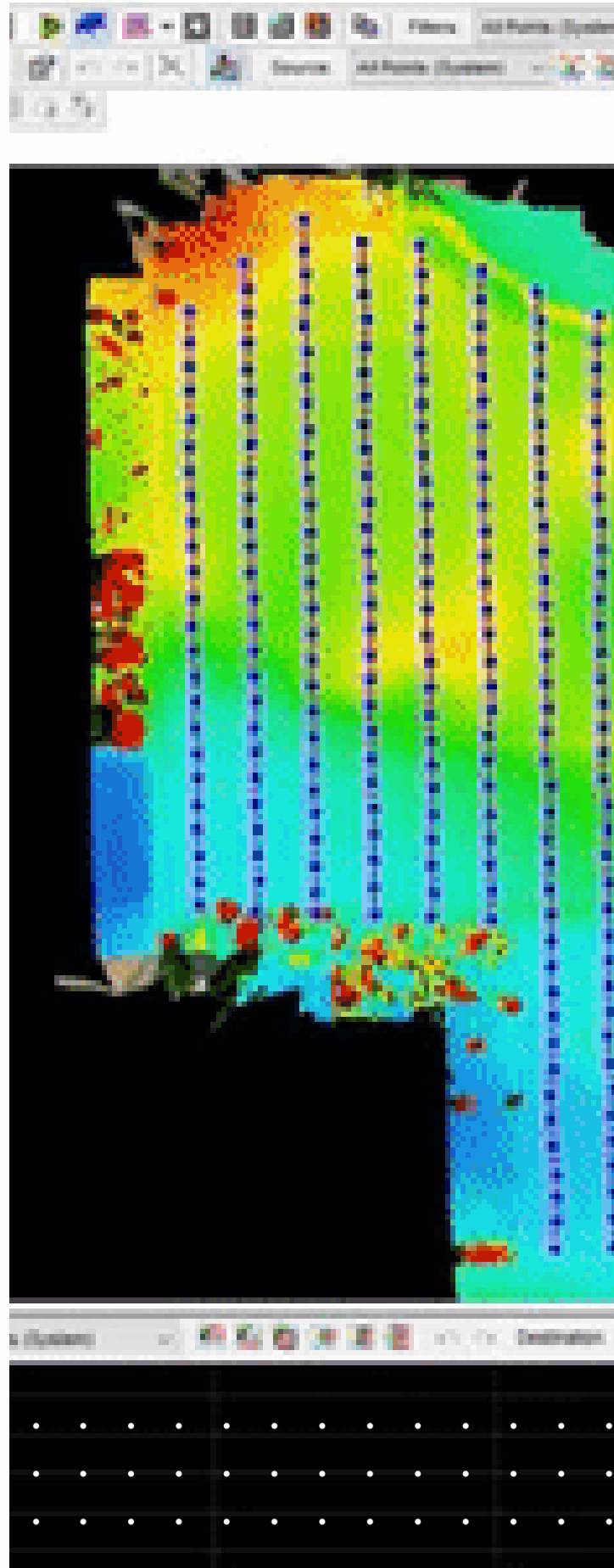
HARDWARE

ZENMUSE L1

A LIDAR + RGB SOLUTION FOR AERIAL SURVEYING

L1

The Zenmuse L1 integrates a Livox LiDar module, a high-accuracy IMU, and a camera with a 1-inch CMOS on a 3-axis stabilized gimbal. When used with Matrice 300 RTK and DJI Terra, the L1 forms a complete solution that gives you real-time 3D data throughout the day, efficiently capturing the details of complex structures and delivering highly accurate reconstructed models.

L1 FAQ
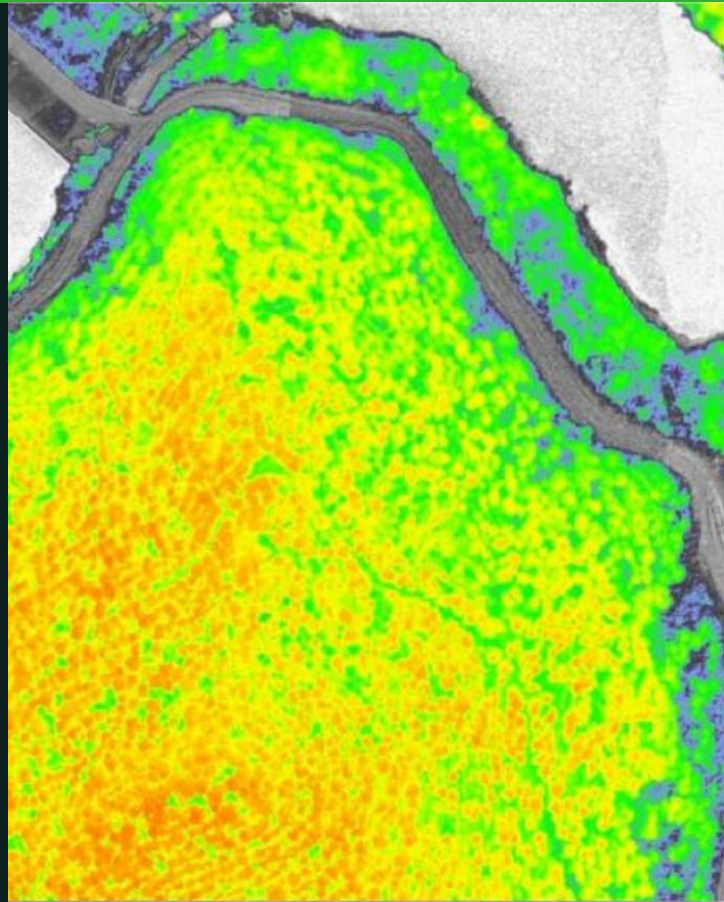
SOFTWARE

EVO

3D HIGH PERFORMANCE POINT CLOUD PROCESSING

Whether it's airborne- or mobile-collected LiDAR, 3D point clouds have become a critical element in mapping. LP360, an advanced desktop LiDAR software package, makes easy work of extracting information and deriving products.

POWERLINE PROCESSING TOOLS

TOOLS AND FEATURES

- Powerful Point Cloud Visualization
- Seamlessly Manage Thousands of Files
- Derivative Product Generation
- Extensive Quality Check Tools
- Interactive and Automatic Classification Tools
- Breakline Digitization Tools for Constraint Conditions
- Automatic Feature Extraction
- Cross-Sections and Contours
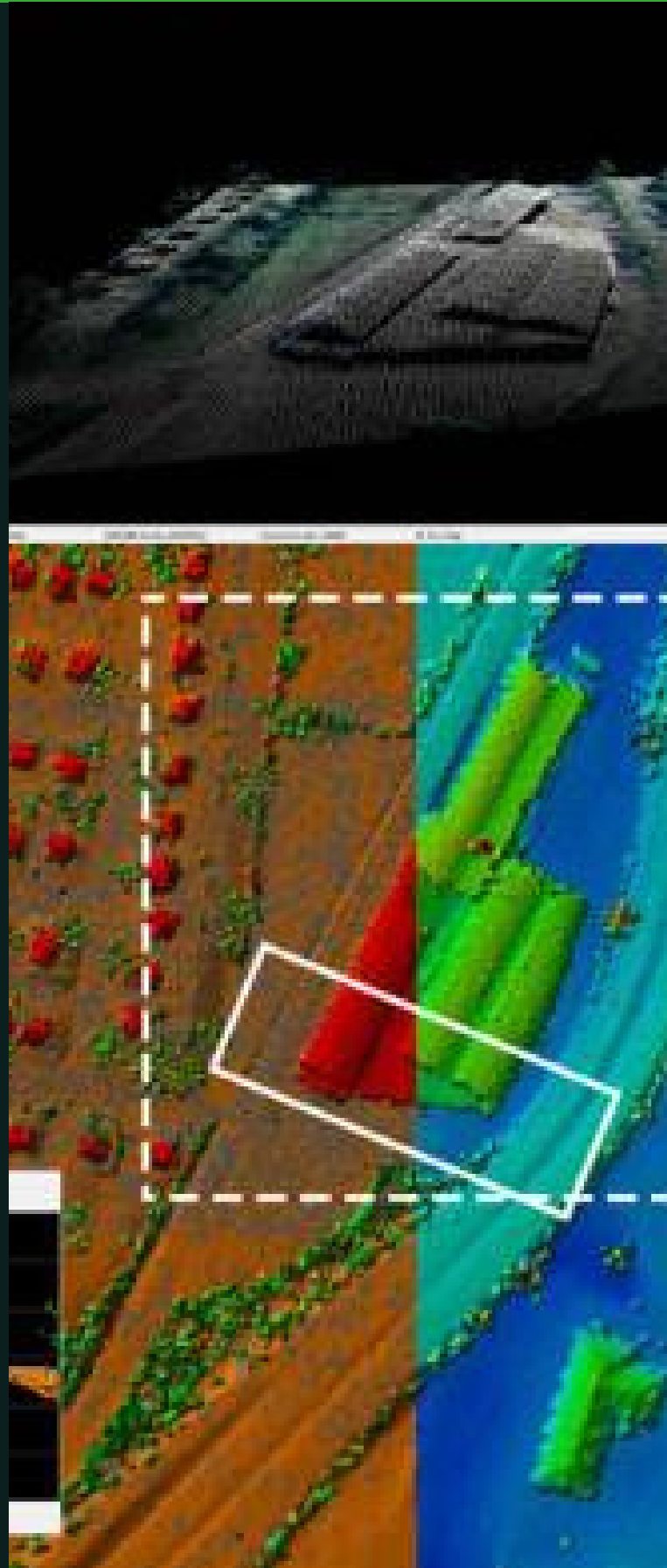
STEPS TO GET YOU STARTED

1   LOGIN TO YOUR RECKON ACCOUNT AND DOWNLOAD THE LATEST VERSION OF EVO

Reckon is an Amazon Web Services (AWS) hosted platform that is used for a variety of purposes within the various GeoCue workflows. For your information, various workflow documents, including EVO and GeoCue Hardware Guides, reside in the Downloads -> Notices section. A Reckon admin account has been created for you. You will be receiving a separate email from Reckon with additional information.

| TrueViewEvo | | RELEASE | 2022.1.22.0 | 2022.04 | 04/20/2022 | ✓ | Download |

Your Customer Success Manager will share the below information with you, securely, in a separate email
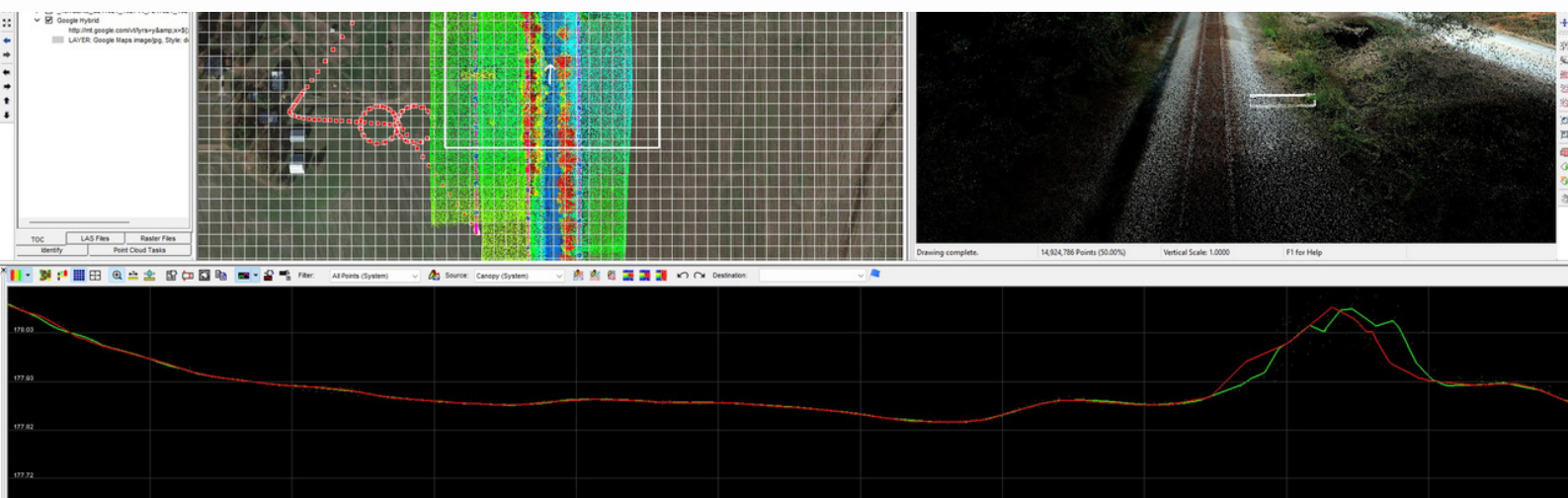
- Login details for Reckon
- License String
- FTP login details

2   INSTALL THE LATEST RELEASE OF EVO

Please follow the steps below to install your new Evo software. If at any stage, you need help or support please reach out to us via phone 1300 900 303 or to your Customer Success Manager
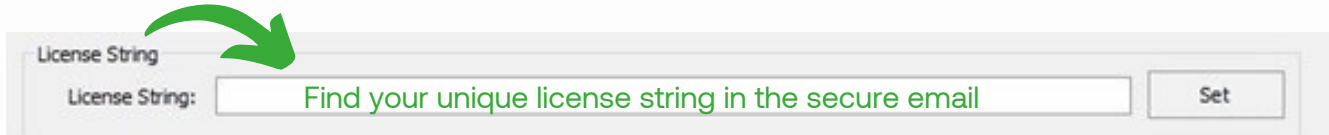
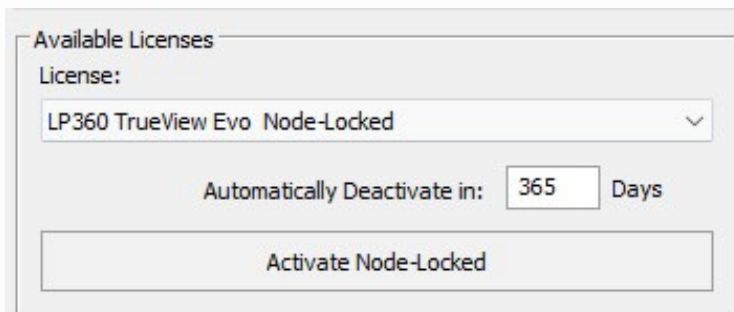1. Install EVO 2022.1.22.0
2. Start EVO

3 ACTIVATE SOFTWARE WITH YOUR LICENSE KEY

Please follow the steps below to install and set up licensing for your new EVO software. If at any stage, you need help or support please reach out to our team via email or phone:

1. Start EVO, the EVO license manager should appear.
2. Copy and paste your entire unique green license string into the licence string box then click set.

3. Under available Licenses, Select LP360 TrueView EVO Node-Locked and click activate licence.
4. Select Close, Your EVO software is now Licensed.
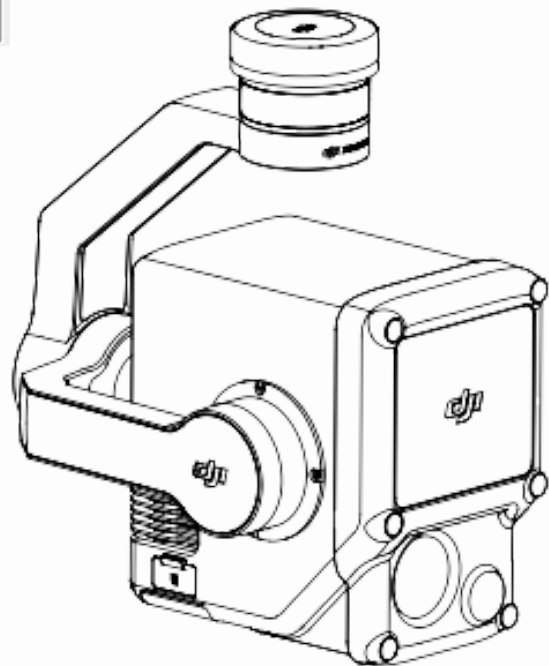
EVO USER GUIDE

The EVO Users Guide is a comprehensive guide to GeoCue's LP360 software for processing TrueView 3DIS, 2DIS, and guest sensors. EVO is a 64-bit Windows® desktop application used for processing and exploiting TrueView and L1 sensor data. It is GeoCue's LP360 point cloud exploitation product with the addition of a collection of tools for TrueView and L1 sensor data workflows.

MAKE SURE TO CHECK OUT

DJI L1 WORKFLOW	PG 90
STRIP ALIGN FOR EVO	PG 106
METASHAPE FOR EVO	PG 109
MULTI CYCLE PROCESSING TIPS	PG 170

[DOWNLOAD EVO USER GUIDE]

OTHER MANUALS

[DOWNLOAD DJI TERRA USER GUIDE]

[DOWNLOAD DJI L1 USER GUIDE]

[SUPPORT INTRO TO METASHAPE AND STRIPALIGN FOR EVO TOOLS]

KNOWLEDGE BASE

To expedite your support needs, we recommend referring to our extensive product Knowledge Base. Our Knowledge Base contains a wide array of technical articles on all our product lines. Explore the Knowledge Base for in-depth articles.

- LP360
- Reckon

:

DJI ZENMUSE L1 WORKFLOW

This video tutorial will walk you through the DJI Zenmuse L1 data processing steps in EVO software. This video details highly relevant features that will raise your L1 data to new heights in terms of deliverables.

- Upgrade LAS from 1.2 to 1.4
- Manage an extensive list of coordinate systems
- Separate LAS file by flight lines
- Strip Alignment for geometric correction
- Smoothing tools
- Add GCPs for data QC
- Access other LP360 tools:
  - ground classification
  - volumetrics
  - feature analysis using point cloud navigation and image explorer
  - manage your photogrammetry processing

WATCH VIDEO ON YOUTUBE

DJI TERRA
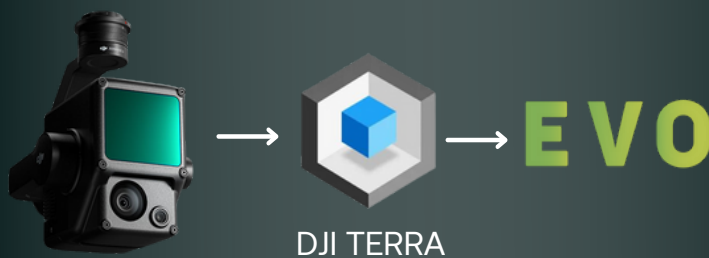
WATCH VIDEO ON YOUTUBE

OVERVIEW AND CHAPTERS

00:00 - Introduction
00:47 - Benefits & Advantages of the L1
01:26 - How EVO compliments the L1 workflow
02:09 - Additional EVO Tools for Data Processing
02:30 - Demonstration of L1 Processing
03:00 - Import Mission & Terra Data
12:00 - Create Flight Lines
14:10 - Create True View Trajectories
15:55 - Update LAS Data from 1.2 to 1.4 (Geocoding)
19:50 - Other ways to look at Data
23:45 - Strip Align for EVO
30:13 - Utilize Tools for Data Smoothing
36:03 - Results of Data Smoothing
37:16 - Generate an Orthophoto from L1 imagery using Metashape for EVO
43:55 - Review Downstream Processing Tools of EVO
45:40 - Manage Coordinate System
46:35 - Summary Processing in EVO
47:04 - Use EVO to further process data and produce deliverables
47:30 - Contact Information

ADVANCED TRAINING

Once you are comfortable with the workflow above, The advanced training video below covers the following topics.

- Adaptive Tin Algorithm
- Accuracy assessment, Debian & Dealing with noise
- Data smoothing
- Automatic ground classification
- Ground class cleanup

TRUEVIEW TRAINING

Part 6
Ground Classification and Derivative Products

SUPPORT

OUR SUPPORT TEAM IS A TRUE DIFFERENTIATOR

We are here to make your LiDAR Journey as seamless as possible.

When things don't go according to plan, we will be there to help.

Local support is available via 1300 900 303 or our Support email address:

support@geocueaustralia.com

For urgent support contact your representative directly during office hours. Normal support business hours are Monday – Friday, 8 AM — 5 PM.

If a support request is sent during business hours a support representative will typically get back to you within 24 hours.

If received after hours, a response will be sent the following day. To speed response time please include the following information in your request:

- Name, e-mail address and phone number
- Company name
- Product name and version number
- Operating system
- Details regarding the issue

If your request includes problems pertaining to a specific error message, please include a screen shot of the error message.