TrueView GO 116S

A Handheld Mapping Sysem for Seamless Indoor and Outdoor Reality Capture and High-definition 3D Mapping

The TrueView GO 116S offers intuitive operation with a “Ready, Set, Go!” approach. Simply start walking and scan your surrounding environment. Ideal for appliations in survying, construction, and building information models (BIM)., this advanced system guarantees fast, easy, and accurate scans every time. Enhance your mapping capabilities with TrueView Go 116S for unparalled ease of use and efficiency.

LiDAR Sensor

- **Data Collection:** LIDAR, Imagery, GNSS and SLAM
- **Sensor:** Survey Grade, Class 1 Eye Safe laser @ 905nm
- **Range:** 0.05 m - 120 m
- **Range - Usable:** 80 m @ 10% Reflectivity (channels 5 to 12); 50 m @ 10% Reflectivity (channels 1 to 4, 13 to 16)
- **Beams/Returns:** 16/2
- **FOV - Horizontal:** 270°
- **FOV - Vertical:** 30° (-15, 0, +15)
- **Pulse Rate:** 320 kHz

Platform

- **Size**:
  - Length: 213.5 mm
  - Width: 126 m
  - Height: 317 mm
- **Weight:** 1.9 kg (including RTK and battery)
- **Power Supply Mode:** Lithium Battery, supports hot-swapping and portable charger
- **Battery Working Time:** 1 hr
- **Operating Temperature:** -20° to 50° C

Cameras

- **Type:** Three 5 MP cameras (15 MP)
- **FOV:** 210° x 170°

Other Included Hardware

- **Chest Mount Harness**
- **Tablet**

System

- **Control:** WIFI + button control
- **Storage:** 512 GB
- **Loop-free Data Aquisition:** Yes
- **Real-time Accuracy Assessment:** Yes
  - **System Performance**
    - **Absolute Accuracy:**
      - **H:** <5 cm RMS
      - **V:** <5 cm RMS
    - **Relative Accuracy:** <1 cm

Software

- **TrueView GO Tablet Software - See data capture in real time**
- **LP360 Land (options available)**
- **LP360 Cloud (optional)**
  - Access
    - Store & Share
  - Starter
    - Stream & View Data
    - Power Search
    - Automatic Ground Classification

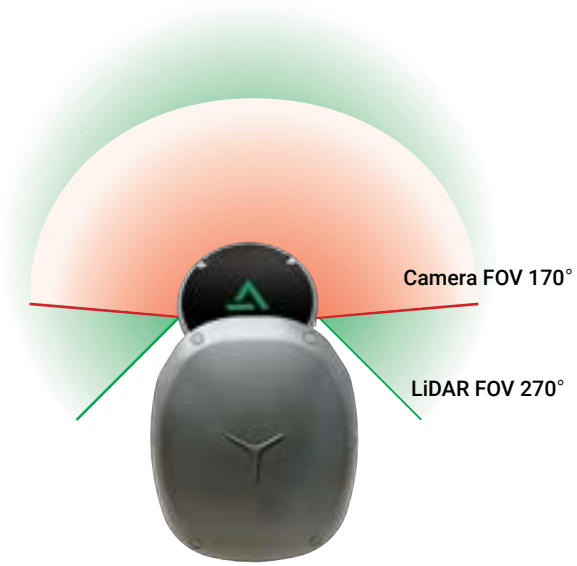
Applications

- **AEC (Architecture, Engineering, Construction)**
- **Heritage Conservation**
- **Forestry**
- **Scan to BIM**
- **Facility Management**
- **Public Safty/Forensics**
- **Education**
- **Underground Mining**

Payload Specifications

Chest Harness with Tablet Mount

TrueView GO Field of View



Features

Operate with Weak or No GNSS

TrueView Go calculates accurate RTK point coordintates using LiDAR nd Visual SLAM data, achieving 5 cm precision within 1 minute, even in areas without satellite signals, enabling effective surveying in indoor spaces and urban canyons.

Remote Measurement

The technology has the capability to scan inaccessible areas by collecting reference points without being on the exact point. The TrueView Go tablet software calculates 3D coordinates in real-tme with an accuracy of 5 cm within 15 m, allowing precise measurements without physical access.

Loop-Free Path Planning with RTK

There's no need to walk in circles. TrueView Go's SLAM technology eliminates the need for traditional loop closure and overlap, reducing the time and distacnce required for project completion by allowing flexible, efficient path planning when you have GNSS coverage

Data

Figure 1 - Scan of the manufacturing area of GeoCue's Huntsville office

Figure 2 - Scan of rural street with houses

Precision Laser & Instrument, Inc.
85 11th Street
Ambridge, PA 15003
(724) 266-1600