TrueView GO Neo

Smaller, lighter, more portable reality capture sensor

The TrueView GO NEO is a smaller, lighter, more portable sensor that makes handheld mapping easier and more flexible than ever. NEO is versatile, compact (no moving parts), and more affordable, yet it still delivers serious performance with an advanced next-generation dome LiDAR and two 12MP cameras for 360 spherical images and high-resolution colorization.



LiDAR Sensor

- **Data Collection:** LiDAR, Imagery, GNSS and SLAM
- **Sensor:** Survey Grade, Class 1 Eye Safe laser @ 905nm
- **Range:** 0.5 m to 40 m
- **Range - Usable:** 40 m
- **Beams/Returns:** 64/2
- **FOV - Horizontal:** 340°
- **FOV - Vertical:** 360°
- **Pulse Rate:** Up to 1.15 million points per second using 2 returns

Platform

- **Size**:
  - Length: 118 mm
  - Width: 93 m
  - Height: 308 mm
- **Weight:** 1.2 kg (including battery)
- **Power Supply Mode:** Quick release handle battery
- **Battery Working Time:** 2 hr
- **Operating Temperature:** -20° to 50° C

Cameras

- **Type:** Two 12 MP cameras
- **FOV:** 360°

Other Included Hardware

- **Sensor Hardcase**
- **SmartHandle (including Battery) and Charger**

System

- **Control:** WIFI + button control
- **Storage:** 512 GB
- **Loop-free Data Acquisition:** Yes
- **System Performance:**
  - **Absolute Accuracy:**
    - **H:** <3 cm RMS
    - **V:** <3 cm RMS
  - **Relative Accuracy:** <1 cm

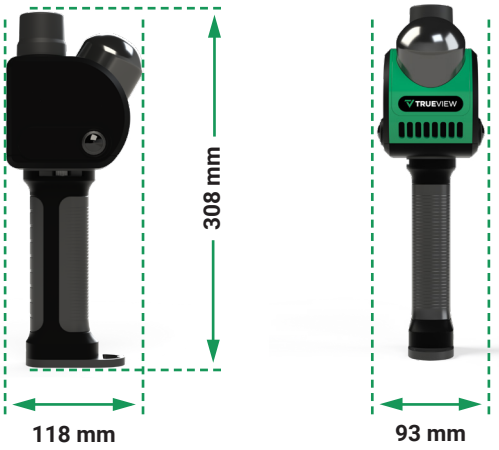
Software

- **TrueView GO NEO Android App - 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**
- **Scan to BIM**
- **Facility Management**
- **Public Safety/Forensics**
- **Underground Mining**

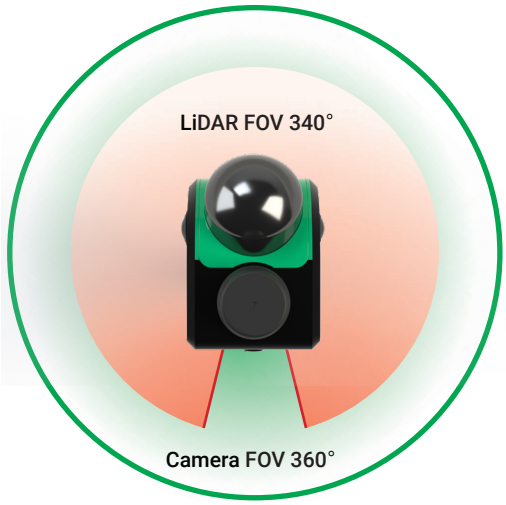
Payload Specifications



Easy, light, and Portable Reality Capture



TrueView GO Field of View



Features

Operate with Weak or No GNSS

TrueView Go Neo calculates accurate RTK point coordinates using LiDAR and 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 Neo Android App calculates 3D coordinates in real-time 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 Neo's SLAM technology eliminates the need for traditional loop closure and overlap, reducing the time and distance 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