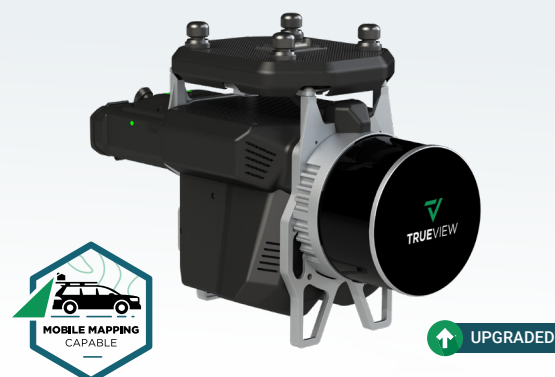


TrueView 515

Upgraded: TrueView 515 – Version C

GeoCue's TrueView 515 is simply the best performing LiDAR/camera system in the mid price range. The system has been upgraded with two new oblique 26 MP cameras. This compact 3D imaging system has impeccable definition along wires, superior ground cover beneath vegetation and sensitivity like we've never seen in this class system.



LiDAR Sensor

- **Sensor:** HESAI XT32
 - 905 nm Class 1 eye safe
- **Range:** Max 120 m, typical 80 m a 20%
- **Accuracy:** +-1 cm and precision 0.5 cm typical 1 sigma
- **Number of Lasers:** 32 channels spread over 31° (-16, +15)
- **Total Pulse Rate:** 640,000 pts per second for single return, up to 1280,000 points/sec 2 returns
- **Rotation Speeds:** 5-20 Hz
- **Beam Spot Size:**
 - In deg: 0.087 * 0.131
 - At 80 m: 12 cm by 18 cm
- **Returns:** 2

Platform

- | | |
|---|---|
| <ul style="list-style-type: none"> • Size: <ul style="list-style-type: none"> • Length: 313 mm • Width: 156 mm • Height: 212 mm • Weight: <ul style="list-style-type: none"> • 1.99 kg for payload only • 2.47 kg for payload with batteries & accessories | <ul style="list-style-type: none"> • Power Consumption: 38 W • Operating Voltage: 12–34 V • Operating Temperature: -15 C–50 C |
|---|---|

Applications

- | | |
|---|--|
| <ul style="list-style-type: none"> • Densely Vegetated Topography • Coal Pile Inventory | <ul style="list-style-type: none"> • Vertical Structures |
|---|--|

System

- **Control:** WIFI + button control
- **Storage:** 128 GB internal storage + 32 GB external

Navigation Solution

- **INS:** Trimble Applanix APX15EI
- **Post-Processing Options:**
 - Single Base
 - PP-RTX (no base station) with fast convergence
 - SmartBase
- **Performance (PPK):**
 - 0.03-0.05 RMSE
 - Better than 0.08° heading, 0.025 pitch & roll

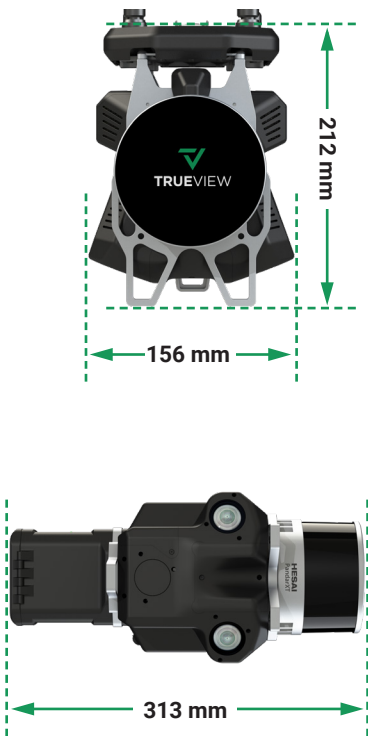
Cameras

- **Type:** 2 * 26 MP Sony mechanical leaf shutter, calibrated
- **Motion Blur:** 0.27 pixel @ 5 m/s @ 80 m
- **FOV:** 113° FOV configuration

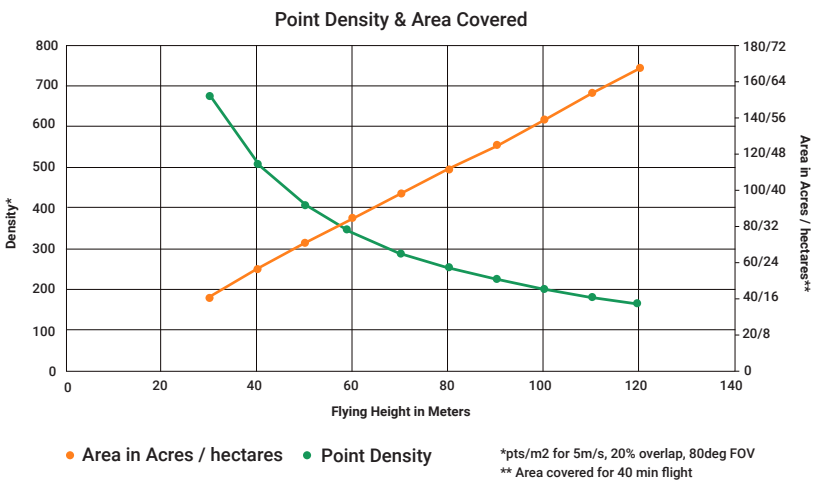
Processing Modules

- | | |
|---|--|
| <ul style="list-style-type: none"> • LP360 Drone
(included with the following processing modules) <ul style="list-style-type: none"> • Strip Adjustment • Photo • Optional Add On's <ul style="list-style-type: none"> • Business Intelligence • Unlimited Project • Metashape Console | <ul style="list-style-type: none"> • LP360 Cloud (optional) <ul style="list-style-type: none"> • Access <ul style="list-style-type: none"> - Store & Share • Starter <ul style="list-style-type: none"> - Stream & View Data - Power Search - Automatic Ground Classification |
|---|--|

Payload Specifications



Performance Data



Accuracy/Precision

Precision Observed on One Strip:	Typical 20 mm, less than 15 mm (1 sigma) observed at 75 m on concrete
Global Accuracy	Typical 3 cm RMSE, better than 5 cm 3D RMSE – depending on GNSS conditions, accuracy of control points and coordinate system

Features

- 

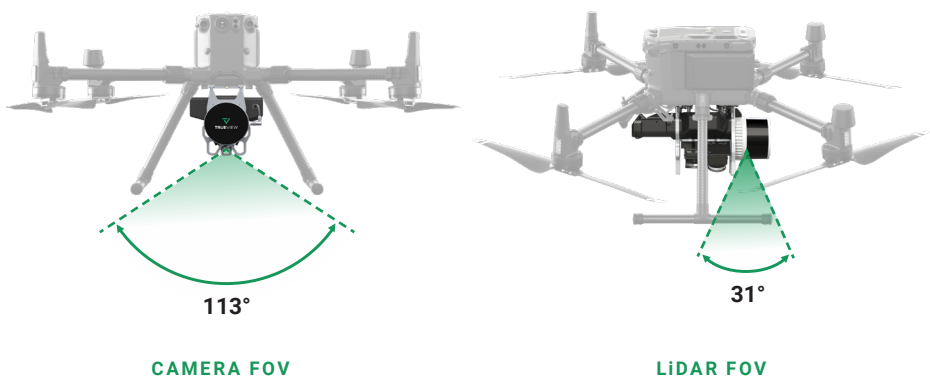
Quick Connect to Drone
Compatible with other TrueView payloads (plug and play with TV680, TV720, etc.)
- 

Optional Battery
Available if connection to UAV is not available
- 

2 Calibrated Cameras
Providing true colorization over 113°

TV515 Field of View (FOV)

31° FOV in track allow to cover vertical surfaces in the direction of the flight.



Compatible Brands

