

TrueView 540 NEW!

Sets a New Standard for Accuracy and Quality in the 500 Series, Making High-end LiDAR More Accessible Than Ever

GeoCue and CHC Navigation bring the most efficient and flexible high-end LiDAR to North America with the new TrueView 540. This next generation of LiDAR elevates our mid-range sensor line, offering enhanced density, improved accuracy, and precision, thereby producing a superior point cloud. The TrueView 540 provides users with a Engineering grade sensor powered by LP360 at a mid-range price, marking a significant advancement in LiDAR accessibility and performance.



LiDAR Sensor

- **Sensor:** CHCNAV single beam laser scanner
 - 1535 nm wavelength
- **Range:** 400 m for targets with > 20% reflectivity
- **Accuracy:** 15 mm (1σ, @150 M) Precision 5 mm (1σ, @150 M)
- **Number of Lasers:** 1
- **Total Pulse Rate:** Up to 500 kHz
- **Rotation Speeds:** 50-250 Scan/S
- **Beam Spot Size:** 0.032°
- **Returns:** Up to 8



Platform

- **Size:**
 - Length: 212 mm
 - Width: 125 mm
 - Height: 185 mm
- **Weight:**
 - 1.9 kg payload only
 - 2.15 kg with accessories
- **Power Consumption:** 40 W
- **Operating Temperature:** -20° to 50° C



Applications

- Rail Inspection
- Wire Extraction - Distribution
- Road Design



System

- **Control:** WiFi
- **Storage:** 512 GB x 2



Navigation Solution

- **INS:** CHC and Honeywell
- **Post-Processing Options:**
 - Single Base
- **Performance (PPK):**
 - 0.02 RMSE
 - 0.019° heading, 0.006° pitch & roll



Camera

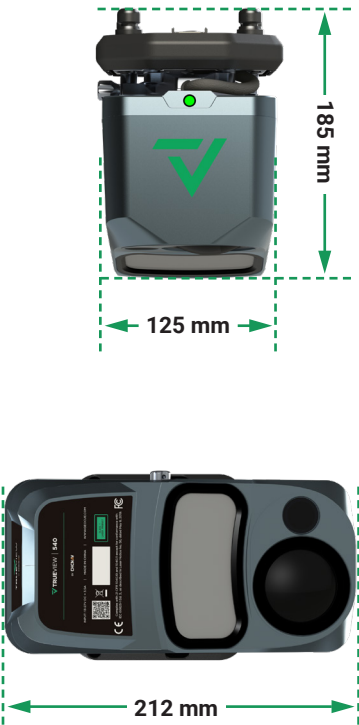
- **Type:** 45 MP Global Shutter Full frame Camera
- **Motion Blur:** 0.3 pixel @ 5 m/s @ 80 m
- **FOV:** 81.2° x 59.5° FOV configuration



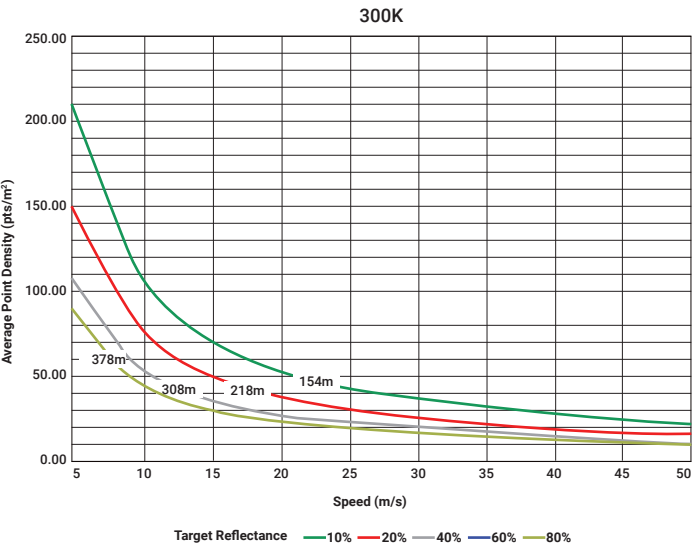
Processing Modules

- **LP360 Drone (included with the following processing modules)**
 - Strip Adjustment
 - Photo
 - 3D Accuracy
- **Optional Add On's**
 - Business Intelligence
 - Unlimited Project
 - Metashape Console
- **LP360 Cloud (optional)**
 - Access
 - Store & Share
 - Starter
 - 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

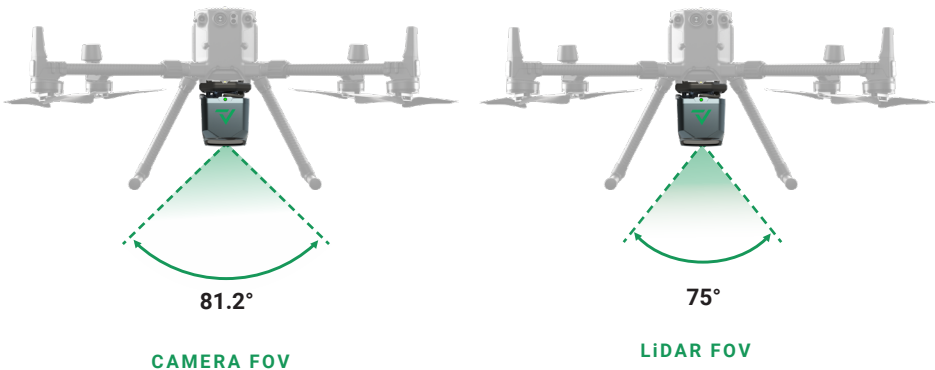
Quick Connect to Drone

Compatible with other TrueView payloads (plug and play with TV720 TV535, ect.)

Calibrated Camera

45 MP full frame global shutter camera

TV540 Field of View (FOV)



Compatible Brands