

# 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 AA10 single beam laser scanner
  - 1550 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

- |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                           |
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| <ul style="list-style-type: none"> <li>• <b>Size:</b> <ul style="list-style-type: none"> <li>• Length: 212 mm</li> <li>• Width: 125 mm</li> <li>• Height: 185 mm</li> </ul> </li> <li>• <b>Weight:</b> <ul style="list-style-type: none"> <li>• 1.9 kg payload only</li> <li>• 2.15 kg with accessories</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>Power Consumption:</b> 40 W</li> <li>• <b>Operating Temperature:</b> -20° to 50° C</li> </ul> |
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### Applications

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| <ul style="list-style-type: none"> <li>• Rail Inspection</li> <li>• Wire Extraction - Distribution</li> </ul> | <ul style="list-style-type: none"> <li>• Road Design</li> </ul> |
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### 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

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| <ul style="list-style-type: none"> <li>• <b>LP360 Drone (included with the following processing modules)</b> <ul style="list-style-type: none"> <li>• Strip Adjustment</li> <li>• Photo</li> <li>• 3D Accuracy</li> </ul> </li> <li>• <b>Optional Add On's</b> <ul style="list-style-type: none"> <li>• Business Intelligence</li> <li>• Unlimited Project</li> <li>• Metashape Console</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>LP360 Cloud Collaborate (optional)</b> <ul style="list-style-type: none"> <li>- Store &amp; Share</li> <li>- Stream &amp; View Data</li> <li>- Power Search</li> <li>- Automatic Ground Classification</li> </ul> </li> </ul> |
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## 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

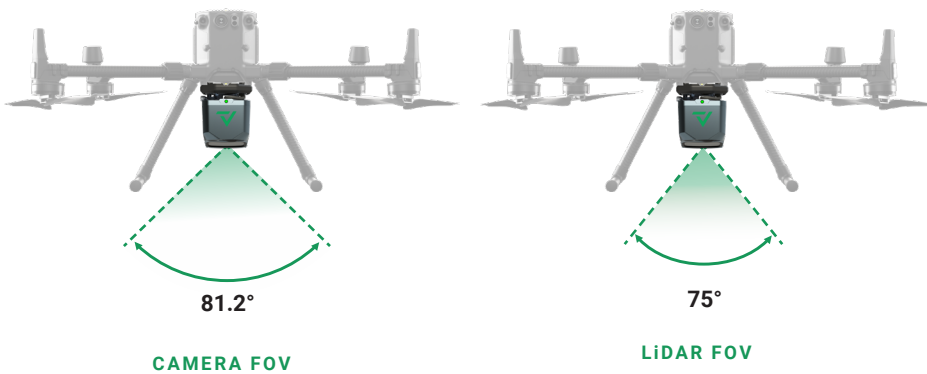
Compatible with other TrueView payloads (plug and play with TV720 TV535, ect.)



### Calibrated Camera

45 MP full frame global shutter camera

### TV540 Field of View (FOV)



### Compatible Brands

