



# GS-960 LiDAR

Long-range LiDAR with high penetration

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# ABOUT

## GS-960 LiDAR Solution



The GS-960 is a high-precision UAV LiDAR system by Geosun Navigation, featuring surveying-grade LiDAR, a high-performance IMU, and photogrammetric cameras. It offers long-range capabilities, a lightweight design, and strong penetration, making it ideal for terrain surveying, power inspections, and emergency mapping.



**Weights only 1.6kg**



**Range 750m**



**Strong Penetration**



**High Efficiency**



Topographic  
Survey



Vegetation  
Monitoring



Power Line  
Patrol



Mine Survey



Emergency  
Mapping



Forestry Survey

# SPECIFICATIONS

| General System Performance           |                                                                          |
|--------------------------------------|--------------------------------------------------------------------------|
| Absolute Accuracy                    | 5cm@150m                                                                 |
| Weight                               | 1.6kg (45MP Camera)                                                      |
| Data Storage                         | 128G                                                                     |
| Dimension                            | 21.7 x 9 x 9.9 cm                                                        |
| Power Consumption                    | 70W                                                                      |
| Carrying Platform                    | DJI M300/M350/Multi-Rotor/VTOL                                           |
| Quick Release Interface              | DJI SkyPort/Customized Interface                                         |
| Operating Temperature                | -10° - +40°                                                              |
| Voltage                              | 24V                                                                      |
| POS Performance                      |                                                                          |
| Model                                | gSpin 310                                                                |
| IMU Update Rate                      | 200Hz                                                                    |
| GNSS System                          | GPS L1/L2/L5; GLONASS L1/L2;<br>GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3 |
| Position Accuracy                    | 0.020m horizontal, 0.030m vertical                                       |
| Pitch Accuracy                       | 0.005°                                                                   |
| Roll Accuracy                        | 0.005°                                                                   |
| Heading Accuracy                     | 0.017°                                                                   |
| Laser Scanner Performance            |                                                                          |
| Measuring Range                      | 750m@80%                                                                 |
| Laser Safety Class                   | Class 1                                                                  |
| Wavelength                           | 1535nm                                                                   |
| Range Accuracy                       | 0.5cm                                                                    |
| Scan Rate                            | 300 lines per second                                                     |
| Point Frequency                      | 100KHZ~550KHZ                                                            |
| Number of Echoes                     | Unlimited                                                                |
| Angular Resolution                   | 0.001°                                                                   |
| Field of View (FOV)                  | 80°                                                                      |
| Software                             |                                                                          |
| Point Cloud Automata                 | World-leading point cloud classification and post processing software    |
| Mission Planning Software (optional) | Customized Route Planning Software — WayPoint Master                     |

## Applications

