Geodetics is an Advanced Sensing and Navigation Company Based in the U.S.A.

- BIM & Construction
- Agriculture
- Mining
- Infrastructure Inspection
- Oil and Gas
- Self-driving cars
- Forestry
- Tower inspection

VLP-16
- 16 Laser Beams
- 100m Range

HDL-32E
- 32 Laser Beams
- 100m Range

VLP-32C
- 32 Laser Beams
- 200m Range

Geo-MMS-TK
Turn-key Mapping system
Includes Payload, Drone and all Accessories

High-Accuracy Drone-Based LiDAR Point Clouds

Geo-MMS™ LiDAR  LiDAR Mobile Mapping System

“One Click” LAS Creation

Geo-MMS Compatible Products

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San Diego, CA 92117
(858) 729-0872
info@geodetics.com
www.geodetics.com
Geo-MMS LiDAR is a LiDAR mapping payload for drone or ground vehicles. Geo-MMS LiDAR includes a high-performance dual-antenna inertial navigation system coupled with an on-board LiDAR sensor. Raw sensor data is processed in real-time or post-mission using Geodetics’ extensive software suite to provide high-accuracy directly geo-referenced LiDAR point clouds in the LAS format. Geo-MMS LiDAR is compatible with Geodetics’ Point&Pixel product for creating colorized LiDAR point clouds.

### LiDAR Point Cloud Accuracy*

<table>
<thead>
<tr>
<th>IMU Grade</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEMS</td>
<td>± 5 cm</td>
</tr>
<tr>
<td>Fiber Optic Gyro</td>
<td>± 3 cm</td>
</tr>
</tbody>
</table>

*Actual accuracy is dependent on GPS processing options (RTK, PPK, WAAS), ionospheric conditions, satellite visibility, flight altitude (AGL) and other factors

*VLP-32C accuracy with MEMS IMU - 15cm

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**LiDAR Sensors: Velodyne VLP-16, HDL-32E, VLP-32C (Others available upon request)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Commercial Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size / Weight / Power</td>
<td>44 in³ (5.5x4.0x2.0) 3.5 lbs.* / 10 – 30 VDC @ 2 Amps min.</td>
</tr>
<tr>
<td>Real-Time Data Output</td>
<td>Navigation solutions at up-to 125 Hz. available via Ethernet or RS-232</td>
</tr>
<tr>
<td>Data Recording/Logging</td>
<td>Navigation solutions, raw GPS, IMU and LiDAR point clouds</td>
</tr>
</tbody>
</table>

For more information about the Geo-MMS laser scanners, please check website at: [http://velodynelidar.com/](http://velodynelidar.com/)
*Weight with VLP-16 LiDAR without mounting assembly. Total weight depends on system options and setup configuration.

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**Available Options**

- **Ready-to-Fly Packages**
  - Selection of Drones

- **PPK/RTK Bundles**
  - High-Accuracy Kinematic

- **Real-Time Performance Monitoring**
  - Real-Time Point Density Map Visualization

- **Mounting Assembly**
  - DJI Matrice M600 Pro

- **Point&Pixel**
  - Colorized LiDAR Point Clouds

- **Geo-Photomap**
  - Ground Control Free Photogrammetry