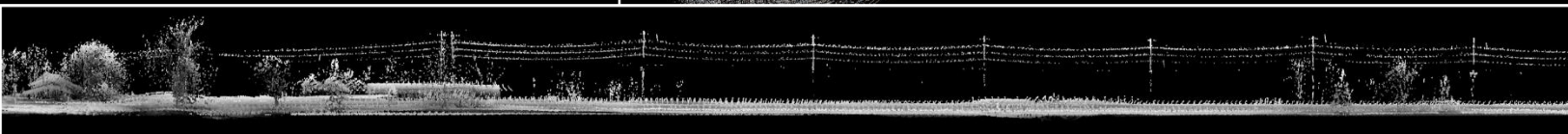


LiDAR and Camera Dual Sensor Mount



- LiDAR
- RGB cameras
- Thermal imaging

Real-time data monitoring



## Geo-MMS™

## LiDAR Mobile Mapping System

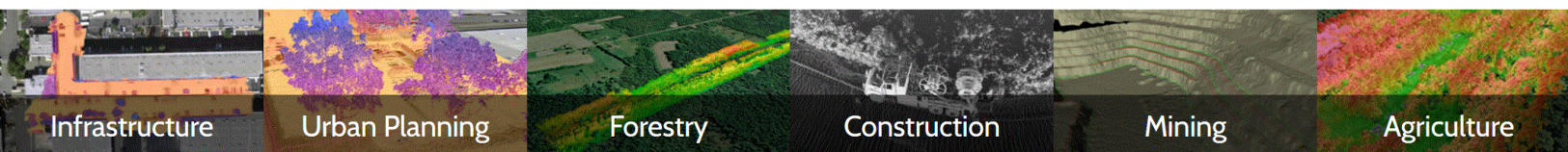
Geo-MMS is an aerial multi-sensor mapping payload including LiDAR and optional RGB/Thermal cameras. Geo-MMS includes a high-performance inertial navigation system coupled with the on-board sensors. Raw sensor data is processed in real-time or post-mission using Geodetics' extensive software suite to provide high-accuracy directly geo-referenced LiDAR point clouds in the LAS format.

### Key Features

- Minimized sensor size and weight to meet payload restrictions
- Available with many IMU's to support a wide range of application accuracy requirements
- Geo-Referenced LAS File Output
- Support for Autonomous GPS
- (WAAS), RTK, PPK (RTD-Post PPK Post Processing System)

### Applications

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



Infrastructure

Urban Planning

Forestry

Construction

Mining

Agriculture

**Geo-MMS Tactical**



**Geo-MMS Advanced**



## Point Cloud Geo-Referenced Accuracy\*

GPS/IMU	Accuracy
Tactical (MEMS)	± 5 cm
Advanced (FOG)	± 3 cm

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

## LiDAR Sensors: Velodyne VLP-16 Laser Scanner (PUCK or PUCK LITE)

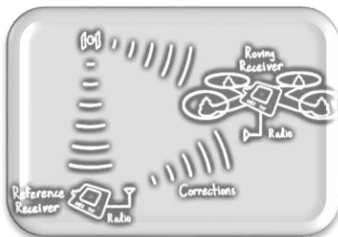
Parameter	Commercial Configurations
Size / Weight / Power	40.32 in <sup>3</sup> (4.7x3.9x2.2) / <3.0 lbs.* / 10 –30 VDC @ 2 Amps min.
Real-Time Data Output	Navigation solutions at up-to 125 Hz. available via Ethernet or RS-232
Data Recording/Logging	Navigation solutions, raw GPS, IMU and LiDAR point clouds

For more information about the Geo-MMS inertial unit, please check our website: <http://geodetics.com/product/geo-inav-tactical/>

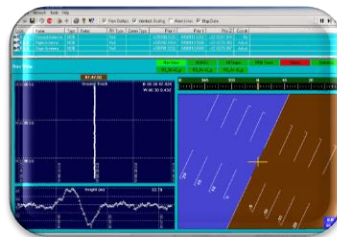
For more information about the Geo-MMS Velodyne laser scanner, please check website at: <http://velodynelidar.com/vlp-16.html>

\*Total weight depends on system options and setup configuration.

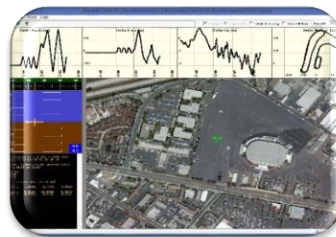
## Configuration Options



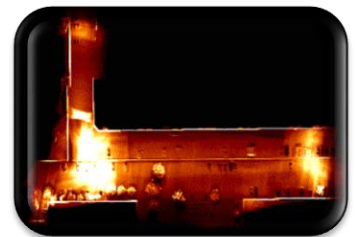
**Real-Time Kinematic (RTK)**  
centimeter-level accuracy



**Post Processing Kinematic (PPK)**  
centimeter-level accuracy (RTD-Post)



**Performance monitoring**



**Point density maps**



**Support for MEMS, FOG and RLG IMU's**



**Geo-hNAV Dual-antenna inertial navigation option**