

# MNM LiDAR System

E38 Survey Solutions now offers the MNM LiDAR system from Mad NADIR Mapping. The MNM boasts the same reliable Livox Avia sensor used on the RESEPI Livox Avia, DJI Zenmuse L1 and more. The MNM is the lightest weight and lowest cost drone LiDAR system in its class. A perpetual license of the MNM LiDAR is included and provides free upgrades. The MNM is compatible with a variety of drones, including the M200 and M300 series.



## System Specifications

- Overall Weight: 730 grams
- Voltage Range: 12-15 V
- Several Mount Options
- Push Button Data Logging
- Simple Web App Data Interface (2.4 or 5.0 GHz)
- LED Status Light
- External USB3 Data Logging (drive included)
- UAV GNSS Antenna and Mount (included)
- Designed and Assembled in the USA

## Software Specifications

- Zero License Fees
- Simple Workflow with Industry Standard Outputs (laz)
- Compatible with Windows 10/11
- Multi-Core Processing with Very Low RAM Usage
- Lever Arm and Boresight Correction Tool
- No Internet Access Required
- No Hidden Post-Processing Steps
- PPK Trajectory Processing (requires base station)
- Perpetual Software License Included
- Software Upgrades Included

## INS/IM Specifications

- Tactical Grade IMU (US Company)
- 0.04° Roll/Pitch (RMSE)
- 0.13° Heading (RMSE)
- Gyroscope: 1.5 °/hr Bias Instability
- Accelerometer: 19 $\mu$ g Bias Instability
- Multi-band GNSS
  - GPS LIC/A L2C
  - GLO LIOF L20F
  - GAL E1B/C E5b
  - BDS B11 B21
  - QZSS LIC/A L2C
- 0.01 m + 1 ppm CEP

## Laser Specifications

- Lidar Returns: Single (first), Single (strongest), Double, and Triple
  - FOV: 70.4° (horizontal) x 4.5° (vertical)
  - Beam Divergence: 0.28° (vertical) 0.03° (horizontal)
  - PRF: 240,000 PPS (single), 480,000 PPS (double), and 720,000 PPS (triple)

