

RESEPI Lite M2X



LiDAR

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| Sensor | Hesai XT-32 M2X |
| Laser Range Capabilities | 80m @ 10% (all channels) 0.5 - 300m |
| Range Accuracy | ±1cm |
| FOV (Horizontal) | 360° |
| FOV (Vertical) | 40.3° |
| Scan Angle (Vertical) | -20.8° to 19.5° |
| Beam Divergence | 0.21° (H), 0.047° (V) |
| Number of Laser | 32 |
| Number of Returns | 3 |
| Pulse Rate | 640k/s (single return) 1280k/s (double return) 1920k/s (triple return) |

GPS-Aided INS

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| IMU | Inertial Labs Tactical Grade IMU-P |
| GNSS | Single/Dual Antenna NovAtel OEM7720 |
| Constellations | GPS, GLONASS, BEIDOU, GALILEO |
| Output Rate | Up to 200Hz (INS) Up to 2,000Hz (IMU) |
| Pitch/Roll Accuracy | 0.006 (PPK) |
| Heading Accuracy | 0.03 (PPK) |
| Velocity Accuracy | <0.03 m/s |
| Position Accuracy | 0.5cm (PPK) |

System

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| System Vertical Accuracy (5m/s @ 50m) | ±3cm |
| Recommended AGL | 50-100m |
| Weight | 1kg |
| External Storage | 256GB USB |

