

OGI Selects iXblue FOG INS for New Mobile Mapping Lidar Solution



OGI has selected iXblue's Atlans FOG-based inertial navigation system for its new mobile mapping Lidar solution dedicated to road assessment surveys.

OGI, Oceanographic & Geophysical Instruments has selected iXblue's Atlans INS to provide robust and uninterrupted data georeferencing to its newly unveiled mobile mapping Lidar solution dedicated to road assessment surveys. A fully integrated mobile mapping solution, this new vehicle-based system integrates the most advanced systems on the market to provide highly detailed georeferenced survey data to US Departments of Transportation (DOTs).

"Highly accurate and reliable georeferencing of the collected data being crucial for road assessment operations, we were seeking a compact and robust navigation solution for our mobile scanner project," states Darren Moss, program manager at [OGI](#). "We tested other inertial navigation systems (INS) during mobile surveys in NYC and Boston with poor results, as those INS units relied mainly on GPS signals. Maintaining good GPS signals in the urban canyons of large cities proved to be impossible. This deeply impacted the georeferencing of the acquired Lidar data, leading to highly inefficient operations. This is the reason we turned to iXblue's Atlans A7 INS."

Data acquisition during GPS outages

Based on fibre-optic gyroscope (FOG) technology, the Atlans A7 INS is a North-seeking INS that offers highly accurate and robust data georeferencing. Resistant to GPS outages, the Atlans A7 enables continuous acquisition operations within environments lacking continuous GPS signals. The Atlans A7 is a valuable system for high-accuracy data acquisition without interruption.

"Working with [iXblue](#) in other markets, we were familiar with the high-quality instrumentation they are known for. We were confident their FOG-based INS systems would perform even during GPS outages," Darren continues. "By choosing the [Atlans A7](#), we are assured to get robust and uninterrupted georeferenced data in urban environments, tunnels, forests, and mountainous areas, which is crucial for our customer's operations. With this INS, iXblue brings high-end FOG performance to the mobile mapping industry at a very affordable price. This changes everything. The Atlans A7 integrates very well within our new mobile Lidar solution and, combined with [Teledyne Optech](#) [Polaris](#) high-resolution Lidar scanner and [QPS Qinsy](#) display and acquisition software, it brings high-accuracy and efficiency to the core of our Mobile Lidar solution."