Getac

Rugged Mobile Computing Solutions

NATURAL RESOURCES

PELAGIS enhances the reliability of its marine observation missions with Getac rugged computers

/ Challenge /

Marine observation involves sometimes extreme conditions, aboard aircraft or ships. In order to ensure the continuity of readings by observers on board small aircraft flying over the sea, PELAGIS needed to find equipment that could withstand heat, humidity and vibrations while guaranteeing the reliability of scientific data collection.

/ Solution /

PELAGIS chose Getac V110 and B360 rugged computing solutions for their performance, robustness and compatibility with on-board measuring instruments, ensuring reliable data entry and transfer in the field for the collection of observations. Indeed, this mission is part of PELAGIS' activities, whether by air or by boat.

/ Benefits /

Thanks to the reliability, light weight and software stability of Getac products, PELAGIS can now carry out its aerial and maritime observation missions without interruption, regardless of weather conditions. The Getac rugged solutions used also stand out for their ergonomics, making data entry easy and fast even in confined spaces such as aeroplanes.

/ PELAGIS /

« Getac computing solutions allow us to collect data at sea and in flight under extreme conditions. Their ruggedness and reliability are essential assets for our scientific missions.»

Ghislain Dorémus, Research Engineer at the PELAGIS observatory (CNRS / La Rochelle University).

Getac B360 & V110
Fully Rugged laptop

/ Challenge /

The PELAGIS Observatory, a support and research unit of the University of La Rochelle and the CNRS, works to conserve marine mammals and assist research on marine megafauna through data collection. Its missions combine scientific research, data collection and banking on marine megafauna, as well as support for public conservation policies.

The PELAGIS teams conduct aerial and maritime observation missions in environments subject to severe constraints: heat, humidity, salt, vibrations and shocks. In small aircraft, the equipment is subject to regular vibrations, high temperatures, particularly under the cockpit in tropical areas, and stresses with possible shocks and tension on the connectors. On oceanographic vessels, computers are located outside, constantly exposed to salt, heat and rain, which is a constraint for equipment that remains permanently connected. The smallest technical failure can compromise several days of work and valuable scientific data.

PELAGIS therefore needed to equip itself with rugged, autonomous IT solutions adapted to scientific connectivity, capable of withstanding field conditions while ensuring the continuity and quality of readings.

/ Solution /

To meet these constraints, PELAGIS chose Getac rugged computers.

In 2017, the observatory equipped itself with V110 convertible rugged laptops for aerial campaigns. In 2025, it renewed its trust in Getac with the acquisition of B360 computers for sea campaigns on oceanographic vessels.

These laptops, with their small design, compact format and multiple ports, facilitate the connection of scientific equipment and are used by on-board observers, who connect their instruments (GPS, photo systems, audio sensors) directly to them. They run on Windows Pro with Sammoa and Sammo-Boat data entry software, which enables the live acquisition and processing of data collected by aircraft and boat (https://www.observatoire-pelagis.cnrs.fr/les-outils/).

Resistant to vibration, heat and salt spray, Getac solutions guarantee stable and continuous operation, whether in a cockpit or on the deck of a ship on the high seas.

/ Benefits /

Getac computers offer PELAGIS the ruggedness and reliability it needs for its most demanding missions. Their rugged design protects components from vibration, dust and moisture, while their software stability ensures continuity of service, which is essential for real-time data capture. PELAGIS teams now have the ability to obtain distribution data at sea in environments where many devices would show signs of weakness.

Their light weight and ergonomic design make them easy to use in confined spaces such as aeroplanes. Similarly, the battery life of Getac devices is a significant advantage as it allows for uninterrupted observations.

Users also highlight the screen's good readability in direct sunlight, the audio quality and the ease of data entry, even in turbulent conditions.

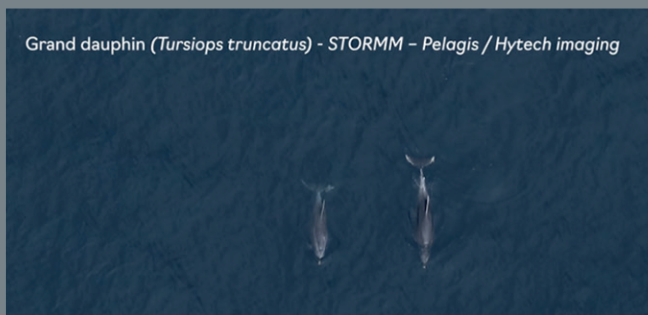
"Beyond the robustness of the equipment, we particularly appreciated the responsiveness of Getac's after-sales service confirming the reliability and professionalism of the company's technical support," says Sophie LARAN, Research Engineer at the PELAGIS Observatory (CNRS / La Rochelle University).

/ About PELAGIS /

The PELAGIS observatory is a support and research unit of La Rochelle University and the CNRS (French National Centre for Scientific Research) whose objective is to work towards the conservation of marine birds and mammals.

Through observations at sea, data collection, and biological analyses of marine birds and mammals, PELAGIS provides society with information that is essential for the protection of biodiversity. Faced with an increase in dolphin strandings on the Atlantic coast, the observatory is at the forefront of responding to societal challenges.

For more information:
https://www.observatoire-pelagis.cnrs.fr/


Grand dauphin (*Tursiops truncatus*) - STORMM – Pelagis / Hytech imaging