

Abstract

Horizon is a project of air monitoring service and acquisition of forest heritage data with high performance solar UAV's. Through a web platform and with real-time video of forest heritage, dispatch plant operators can make high-cost decisions with more information, further strengthening the prevention and early detection of forest fires and illegal logging. The service is presented as a complementary tool to the watchtowers, which allows to identify precisely the location, the type of accident and its main characteristics (accesses, type of fire, geography, georeferencing, wind speed and temperature). Horizon's diversification and the versatility of its equipment includes the acquisition of long-range forest use data such as lidar, multispectral, thermographic and RGB.