



APX-15 UAV

VERSION 2 , SINGLE BOARD GNSS-INERTIAL SOLUTION

The Trimble APX-15 UAV (V2) is a GNSS-Inertial OEM solution designed to reduce the cost and improve the efficiency of mapping from small Unmanned Aerial Vehicles (UAVs). Comprised of a small single OEM board containing a precision GNSS receiver and inertial sensor components plus post-mission Differential GNSS-Inertial office software, the Trimble APX-15 UAV eliminates the need to survey extensive Ground Control Points (GCP's), and reduces the amount of sidelap to be flown, thus increasing the area flown per mission.

HIGH ACCURACY, EXTREMELY SMALL PACKAGE

Measuring just 6 cm x 6.7 cm and weighing only 60 grams, the Applanix APX-15 UAV provides unparalleled performance in an extremely small package. And with the included POSPac UAV post-mission software, it produces a highly accurate position and orientation solution for direct georeferencing of cameras, LIDARs and other UAS sensors.

THE APX-15 UAV BRINGS ALL THE BENEFITS OF DIRECT GEOREFERENCING TO UAV PLATFORMS:

- ▶ Direct georeferencing of any sensor data
- ▶ Ultra-fast image delivery
- ▶ Supports all common corrections such as CMR, CMR+, RTCM
- ▶ Reduces the number of needed ground control points, saving time and money
- ▶ Consistent, reliable, highly accurate mapping grade results
- ▶ Optimizes your UAVs capabilities
- ▶ Maximizes your aerial survey productivity
- ▶ Can be used as backup to the autopilot system

Key Features

- ▶ High-performance Direct Georeferencing solution for improved efficiency and accuracy of mapping from small Unmanned Aerial Vehicles
 - Reduce/eliminate GCP's
 - Reduce sidelap
 - Accurate LIDAR georeferencing
- ▶ Compact single-board OEM module complete with survey-grade multifrequency GNSS receiver and MEMS inertial components
- ▶ Applanix IN-Fusion™ GNSS-Inertial and SmartCal™ compensation technology for superior position and orientation performance
- ▶ POSPac UAV Differential GNSS Inertial post-processing software for highest accuracy
- ▶ RTK real-time position for precision landing applications



