POSTrack 410 System

Applanix has introduced the POSTrack 410 Flight Management and Direct Georeferencing system. The system is designed specifically to be used with the latest generation of medium-format airborne digital photogrammetric cameras to maximise the efficiency and productivity of airborne mapping.

POSTrack is a flight management system for airborne cameras with a built-in POS AV GNSS-Inertial Navigation System (INS) for direct georeferencing of airborne images. Flight management features include mission planning, pilot guidance, automatic stabilised mount control and automatic camera triggering at pre-planned intervals. The POS AV features include in-air initialization, leveling of stabilized mounts, automatic drift correction, GNSS position translation using encoder data from stabilized mounts, and generation of exterior orientation of each image for the mapping process. Each of these features reduces the cost of airborne mapping by improving the efficiency of the data collection and map production process.

Purpose built for the aircraft environment, the POSTrack 410 has been designed with an accuracy level specifically optimised for direct georeferencing of medium format digital cameras. For block photography applications it also supports Automatic Aerial Triangulation (AT) to improve final geometric accuracy and make the point matching processes automatic and reliable. The POSTrack 410 can also be supplied with the highly efficient Trimble InPHO Match-AT aerial triangulation software.

Also included as part of the POSTrack 410 system is the industry leading POSPac Mobile Mapping Suite (MMS) office software, featuring the Applanix IN-Fusion technology and SmartBase module. POSPac MMS can enable airborne missions to be flown with higher reliability and in less time, saving fuel costs and reducing environmental impact.