



INTERSOFT
SERVICES

PAPI Calibration reinvented



SkyRF® calibrates your Precision Approach Path Indicator (PAPI) systems faster and more accurate compared to traditional test flights. The SkyRF® drone flies a preprogrammed trajectory which is highly repeatable and executed in less than fifteen minutes. Accuracy is unrivalled and CO2 emissions and noise disturbance of conventional test flights are avoided.

- Measure PAPI in a 15 minutes drone flight
- Unrivalled accuracy and repeatability
- Runway remains operational
- No test flights, no runway downtimes, no CO2 emissions, no noise disturbance
- Compliant to ICAO 8071, STANAG 3374, FAA 8200.1



Together we make the sky safer

PAPI calibration challenges

PAPI is a navigation aid that helps pilots to align to the defined approach angle. It uses red and white lights, located next to the runway. This systems requires frequent calibration because the indicators can deviate over time or be misaligned due to abrupt wind or air traffic impacts.

This calibration is typically done using test flights with a small aircraft , causing noise disturbance and CO2 emissions . This is a time consuming operation for which subject runways need to be taken out of operation for the duration of the tests.

SkyRF® PAPI calibration

SkyRF® addresses all the challenges of traditional PAPI calibration. It demonstrates unrivalled accuracy and repeatability, is environmental friendly and has minimal operational impact. PAPI calibration can be conducted at night or during opportunity timeslots. The actual drone flight takes less than fifteen minutes.

SkyRF® can be used in calibration, site acceptance and commissioning. The flight trajectories are executed automatically, requiring only a safety monitoring operator. During test, SkyRF® measures PAPI system angle, transition angles for each unit, angular coverage, horizontality, symmetry and relative brightness.

Classic image processing techniques utilizing light detection are employed. Pictures are transformed into binary images, and subsequent filtering processes such as erosion and dilation are applied to easily detect light spots.



SkyRF® offers a platform for measurement services on a wide range of Communication, Navigation and Surveillance (CNS) systems. Measuring and analyzing signals at elevation was never before so easy, accurate and reliable. SkyRF® reduces the need for flight checks by up to 50%.

Taking CNS measurements to the next level



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