



PAPI CALIBRATION USING DRONE



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OPERATIONS OPTIMISATION

FRACS drone-based PAPI Calibration solution

A CERTIFIED, INNOVATIVE &
PROVEN SOLUTION



CALIBRATION

Developed in 2019 by French civil and military aviation authorities together with the DSNA Technical & Innovation Direction, the FRACS drone-based PAPI calibration method is officially validated by the French Civil Aviation Technical Service (STAC).

It is recognized as an approved means for PAPI calibration in France and is deployed internationally, including at Geneva Airport.

Designed by flight inspection experts for PAPI technicians, FRACS methodology combines operational practicality, simplicity, and high precision.

Why FRACS?

- ICAO & EASA compliant
- Minimal runway impact
- Rapid deployment worldwide
- Turnkey solution available



FRACS delivers an innovative, safe and sustainable alternative to conventional flight calibration methods.

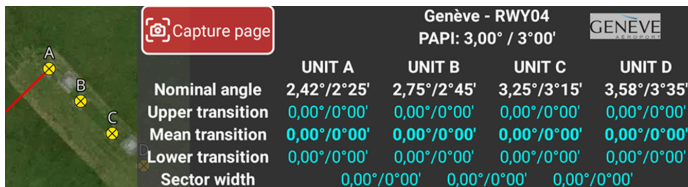
ADVANCED TECHNOLOGY FOR MAXIMUM PRECISION

Objective Colorimetric Measurement

FRACS uses an advanced colorimetric algorithm based on ICAO CIE standards to:

- Detect red/white transitions objectively
- **Measure transition angles in real time**
- Evaluate chromatic limits and angular precision
- **Ensure repeatability independent of human vision**

All measurements are safely performed at a nominal 200 m distance and up to 30 m height, without runway overflight.



Fully Integrated Drone Solution (CAVOC+)

- Embedded Android application installed directly on DJI remote controller
- Compatible with all DJI RTK platforms
- **Real-time data display and validation:** Automated calculations and instantaneous compliance verification
- Offline operation possible (no internet dependency)

The solution configures camera, RTK, geofencing, and safety systems automatically, allowing the pilot to focus entirely on measurement and safety.

INNOVATIVE SOLUTION

A FLEXIBLE ACQUISITION ADAPTED TO YOUR OPERATIONAL NEEDS

Flexible Acquisition models:

Service-Based Option

We perform the calibration for you – turnkey intervention, immediate operational efficiency, no internal resource requirement.

Turnkey Solution

Acquire the complete FRACS package (software, training & support) and operate independently with full autonomy. A taylor-made implementation process:

