



**INTERSOFT**  
SERVICES

## Integrated ILS-DME measurement

SkyRF® is the most cost effective product or service available for accurate performance assessment of CNS systems, including Instrumented Landing System (ILS) and Distance Measurement Equipment (DME).



- ✓ Measure ILS Localizer (LLZ), Glidepath (GP) and DME emissions in a single 15 minutes drone flight
- ✓ LLZ alignment, transmitter ID, course width, symmetry, modulation and low clearance values
- ✓ GP angle, path width, symmetry and full fly up and full fly down values
- ✓ DME transceiver functionalities providing continuous range information during every flight
- ✓ No test flights, no runway downtimes, no CO2 emissions, no noise disturbance
- ✓ Compliant to ICAO 8071, STANAG 3374, FAA 8200.1



□ For a complete ILS/DME assessment, the SkyRF® drone flies three trajectories consequently:

- Mini-Orbit: LLZ/DME measurement
- Vertical: GP/DME profile measurement
- Mini-Approach: LLZ, GP and DME simultaneous measurement



*Vertical, Mini-Orbit and Mini-Approach trajectories for default maintenance procedure*

- Course, clearance, frequency and absolute power are measured through AM modulation of the 90/150 Hz signals. The difference in depth of modulation (DDM) is an indication of the exact position relative to the landing strip.
- Measurement data can be streamed during the flights (with 4G and WIFI), enabling live monitoring of all parameters like GP angle, sector widths and DME distance. Other parameters that are visualized by the ILS Preflight Checker software are LOC displacement error, course/clearance ratio and threshold crossing height in normal and alarm conditions. The DDM is also plotted versus the azimuth angle.

□ SkyRF® was developed by users, for users.  
Intersoft Services partners with the Swiss ANSP Skyguide.

Taking CNS measurements to the next level



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