



**INTERSOFT**  
ELECTRONICS

**RES®**

Radar Environment Simulator for (M)SSR/IFF

RES® presents a known reference environment to the radar on RF level. The simulated environment can include up to 2000 SSR or Mode-S targets, ADS-B, FRUIT, reflectors and antenna behavior. It allows a full data link to be tested to its extreme performance limits.



RES®



Mode 5 extension

## BENEFITS

- RES® was developed in close cooperation with EUROCONTROL and provides full test capabilities against the mandated **standards**.
- RES® speeds up factory and site acceptance testing through generating simulated scenarios which are impossible to achieve with common signal generators. **Repeatability** of tests is a valuable time- and cost-saving advantage of RES®.
- RES® avoids dependency of opportunity traffic and test flights, as such increasing reliability and reducing cost and environmental impact.
- RES® has an **intuitive user interface** but has many **expert features**. Therefore, it comes with profound user training, documentation and, obviously, with maintenance and calibration services.

RES® is the industry standard  
for (M)SSR/IFF and Mode 5 testing and certification.

## CAPABILITIES

Its unique simulation capabilities and its ability to record any type of radar output, make RES® the industry standard COTS equipment for (M)SSR/IFF performance evaluation.

- **Simulation of full data link:** up to 2000 targets in Mode-S, Mode 1, 2, 3/A, C, Mode 4, Mode 5, ADS-B-ES1090 and TIS-B.
- **Quickly create complex scenarios:** e.g. for acceptance testing by using implemented models
- **Injection of predefined scenarios:** e.g. for regression testing and maintenance
- **Test a radar's most challenging performance specifications:** load capacity, sensitivity, Mode S performance, Mode 1 and 2 performance, resolution behavior, accuracy, probability of reply, performance when using low PRF, high rotation speed, jammer frequencies, etc.
- **PSR/SSR full system evaluation:** synchronize RES® with RTG (PSR Radar Target Generator) to produce complex combined target scenario's

The Intersoft Electronics Group provides state-of-the-art technology for radar system integration and service life extension. It also houses high-tech manufacturing facilities and a growing Services organisation for CNS systems.

With a pedigree of 40 years in development, manufacturing and field services, Intersoft Electronics Group has become a reference in radar technology and CNS services worldwide.

Together we make the sky safer

