

# RADAR SIGNAL SIMULATOR



RASSIM is a cutting-edge solution designed to simulate complex RF environments and validate the performance of Electronic Warfare (EW) systems under realistic conditions. With its advanced architecture, RASSIM enables accurate simulation of radar signals, making it an indispensable and cost-effective system for testing EW battlefield in a controlled laboratory setting. It offers flexibility and high level threat performance with custom-made scenarios that replicate real-world conditions to ensure that EW systems are always mission-ready. Highly customizable architecture of RASSIM provides flexibility for specific needs of customers.







### **Advanced Signal Simulation**

Generation of both pulse and continuous signals. Supporting up to 32 simultaneous emitter pulse or 4 CW signals with comprehensive testing coverage.

#### **Customizable Scenarios:**

Dynamic and static scenario generation with fifteen different antenna scanning types and seven pulse width options, providing a broad range of testing conditions.

#### **High Fidelity and Performance**

Provides highly realistic simulations of diverse radar threats, ensuring comprehensive and effective testing and training.

#### **Scalable Architecture**

Accommodates adjustable number of signal generator units (SGUs), allowing easy scalability and adaptability to meet evolving testing needs.

## **Integration Capability**

Seamless compatibility with existing avionics and electronic warfare systems for smooth integration into operational environments.

## **Comprehensive Support and Training**

Through training programs and responsive customer support help users build skills and stay ready for any operation.

| PRI Range:              | lus to ls |
|-------------------------|-----------|
| PRI Resolution:         | 25 ns     |
| FMOP Deviation:         | 200 mHz   |
| <b>FMOP Resolution:</b> | 100 Hz    |
| <b>AMOP Resolution:</b> | 0.25 dB   |
| PMOP Resolution:        | 45 Degree |

| Frequency Range:             | 0.5-18 GHz         |
|------------------------------|--------------------|
| <b>Frequency Resolution:</b> | 50 kHz             |
| Frequency Accuracy:          | +-100 kHz          |
| Peak Output Power:           | -10 dB             |
| Scenario Exhibition:         | 1Scenario/s        |
| RF Frequency Range:          | 0.5-18 GHz Dynamic |
|                              |                    |

