



Advanced Radar Environment Simulators

Delivering industry-leading performance out of the box

Mercury's advanced radar environment simulator (ARES) solutions provide proven, cost-effective alternatives to costly flight testing with an environment simulator ideal for applications including anechoic chamber, open-air range (OAR), and laboratory-based testing. These products are available in a standard configuration with the option to include EA threat emulation and other advanced capabilities.

With the increase of complexity around cognitive and adaptive EW jamming techniques, synthetic aperture radar (SAR) imaging, agility and spectral range, the ability to effectively create and test radar systems requires effective simulations and testing.

Highlights

- Options for EA techniques for real-world jamming imitation
- Robust, user-friendly GUI and real-time operation
- Configurable up to 4 simultaneous channels and up to 8 targets per channel

Featured Product ARES3100



ARES3100 delivers industry leading performance out of the box

PRODUCT BRIEF

Advanced Radar Environment Simulator



Utilizing this advanced system, users can recognize technology gaps and acknowledge where improvements are needed to effectively track and operate against jamming attacks. ARES creates a safe, yet effective, environment for users, such as radar operators, to test their equipment for better preparedness, effectiveness, and training.

Mercury's radar environment simulators are the industry standard with 25 years of development and advancements made to create a robust, more affordable way to simulate radar environments. The ARES products apply this trusted technology to a standard, configurable solution.



Benefits

- Shorter lead times
- Variety of repeatable test environments
- Modular design to adapt as needed
- Better pilot training for greater overall safety and threat avoidance
- Configurability to include advanced capabilities, such as EA threat emulation

Features

- Robust GUI for simple operation
- Pulse-to-pulse operation with real-time results
- Configurable up to 4 simultaneous channels and 8 targets per channel
- 2-18 GHz operating range
- Ethernet control

Applications

- Radar performance evaluation
- ECM vulnerability assessment
- Radar production testing
- ECCM training/tactics development
- Air defense personnel training
- Receiver/processor development

DOES YOUR PROGRAM REQUIRE A CUSTOM RADAR ENVIRONMENT SIMULATOR?

Mercury's decades of experience developing DRFM-based electronic attack training solutions continue to provide a fully customized product to meet customer's unique requirements. With an EA threat library to emulate the most complex jamming and deception techniques, Mercury's custom radar environment simulator supports applications ranging from anechoic chambers to open air range to laboratory-based radar production testing and comprehensive radar performance.

To view our custom radar environment simulator product, visit: www.mrcy.com/radartesting



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