mercury

mPOD
Airborne Electronic Attack Training System

Emulate electronic attacks and reprogram missions in minutes

- Quickly program multiple missions for different aircraft and radar with an intuitive software interface
- Emulate up to four simultaneous NASIC-validated jamming and spoofing techniques

- Detect/emit 7-11 GHz RF signals with up to 4 channels
- Pod or internal carriage options
- Flight-ready DRFM-based solution

The Mercury training pod (mPOD) is a commercially available, rapidly reprogrammable, airborne EA training system that accurately emulates NASIC-validated RF electronic attack techniques to spoof or jam multiple Blue Air platforms and supports multiple threat scenarios and training flights.

Highlights

- Accurately emulate validated, near-peer, ground and air EA threats with proven Filthy Buzzard DRFM technology developed for over 35 years in partnership with the U.S Air Force/Navy.
- Quickly update and load missions and threats to support multiple training programs across sites using various radars and aircraft with Mercury's JETS software interface.
- Use the aircraft display to switch between 15 live missions, configured and prioritized through the JETS software interface.
- Quickly calibrate, test and perform maintenance on the mPOD using the JETS GUI and out-of-the-box aircraft test and ground operational equipment.
- Simultaneously detect and emit up to four 7–11 Ghz frequency EA techniques with 12-bit DRFM technology that supports up to 4 channels.
- Reduce overall sustainment cost with a scalable and modular EA training solution that contains only six swappable hardware components with high MTBF.
- Speed integration with the aircraft display and control panels using the JETS software interface and built-in Ethernet or discrete interfaces, or purchase an optional, pre-integrated cockpit control panel.

| 4	35	2x	7–11 GHz
simultaneous EA techniques emulated	years of matured DRFM technology leveraged	faster mission reprogramming	RF frequencies supported

CONTACT US

JETS SOFTWARE INTERFACE (GUI)

Compatible with any Windows computer, mPOD's JETS software interface can be used to configure and load electronic attack techniques into the aircraft display to allow Red Air pilots to emulate multiple mission scenarios during air combat. Technicians edit aircraft, emitter and response settings to create a "mission" and compile a comprehensive mission library. Emitter and response libraries are automatically populated as missions are configured, reducing data entry and setup time for future missions. JETS is also used to prioritize missions for simultaneous radar mode detection and assign parallel IDs to sync with the cockpit control panel or display for easy pilot identification.

Build a "mission" by editing aircraft, emitter and response settings:
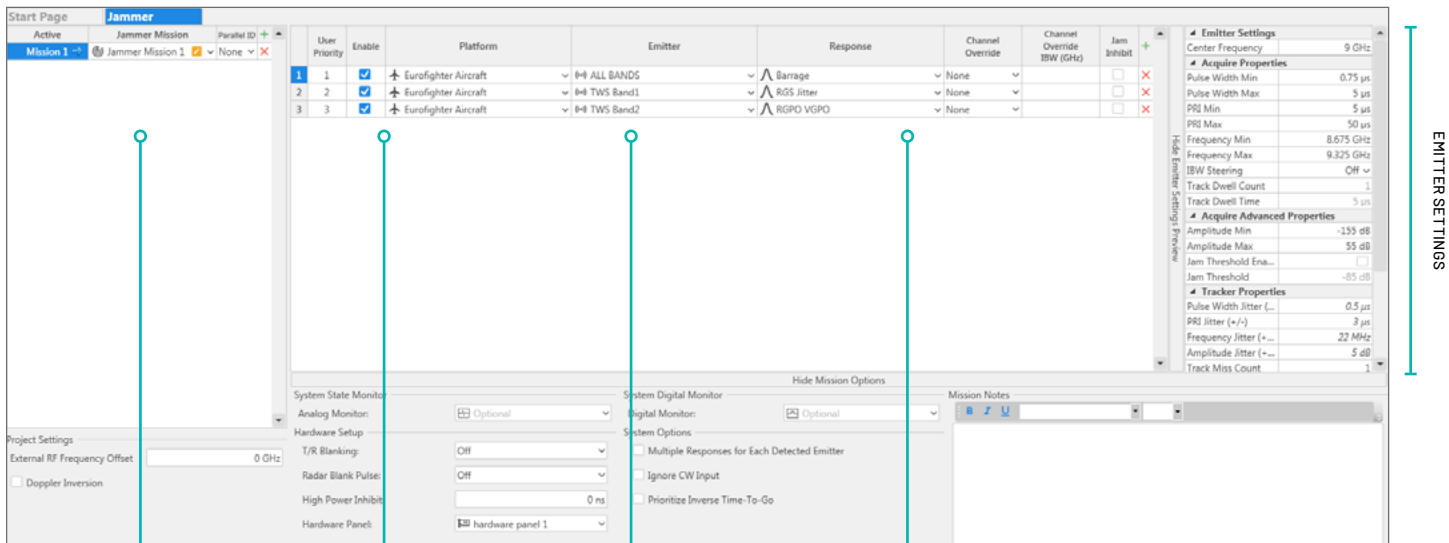
1. Define **aircraft** → 2. Define **emitter or aircraft radar mode** (e.g., TWS, SEARCH, Air Combat Maneuver (ACM), Target Track) → 3. Create and prioritize **response/s or EA techniques** to emulate
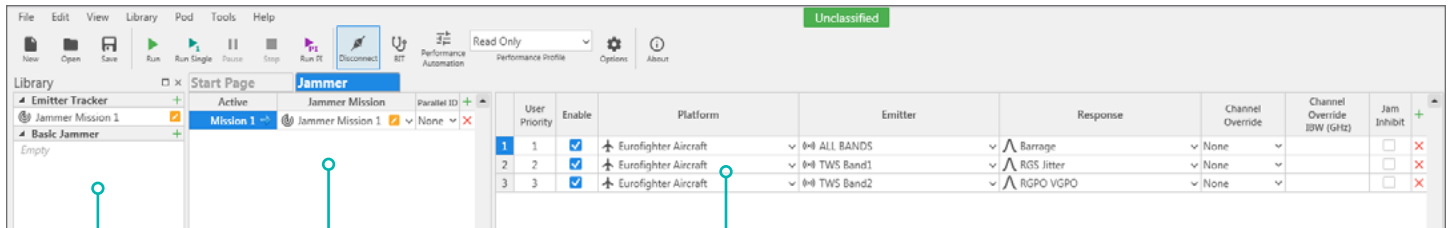
RADAR MODE/ EMITTER LIBRARY

SET PARALLEL ID FOR MISSIONS AND SET STANDBY MISSIONS

PRIORITIZE MISSIONS AND IDENTIFY UP TO 15 LIVE MISSIONS TO SYNC INTO THE COCKPIT CONTROL PANEL

VIEW LIVE MISSIONS

EDIT PLATFORM SETTINGS TO MATCH BLUE FORCE

EDIT EMITTER SETTINGS TO MATCH AIRCRAFT RADAR MODE

EDIT RESPONSE SETTINGS TO DEFINE EA TECHNIQUES TO EMULATE

TECHNICAL SPECIFICATIONS

Simultaneous EA responses: up to 4

Frequency response: 7–11GHz

Boresight effective radiated power (ERP): 1 KW

Beamwidth:

　Azimuth: +/- 30° ERP: 250W

　Elevation: +/-15° ERP: 250W

Internal Hardware

Filthy Buzzard DRFM subsystem: 12-bit digitizer, 7–11 GHz (1 channel)

Antenna: transmit/receive: 2–18 GHz

Power: 115 V AC 400 Hz, 3 phase

JETS Graphic User Interface

Compatible with Windows OS

Library: Up to 255 radar modes/emitters

Cockpit Control Panel Option

Dzus-mounted cockpit control panel

Ethernet direct-to-glass integration

C9492 Pulse Position Dataline

Mechanical

Dimensions:

　Pod: 136.6" L x 25.13" W x 17.75" H

　Internal carriage option: Ask factory

Power: 115 V AC 400 Hz 3Ø at 8A/Ø (max)

Weight: max 300 lb

Environmental

Operational:

　-40° C to +71° C at sea level continuous

　40° C to +58° C at 35,000 ft continuous

　-40° C to +44° C at 50,000 ft for up to 75 min

Storage: -62° C to +95° C at sea level to 50,000 ft

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Corporate Headquarters

50 Minuteman Road
Andover, MA 01810 USA
+1 978.967.1401 tel
+1 866.627.6951 tel
+1 978.256.3599 fax

International Headquarters
Mercury International

Avenue Eugène-Lance, 38
PO Box 584
CH-1212 Grand-Lancy 1
Geneva, Switzerland
+41 22 884 51 00 tel

Learn more

Visit: mrcy.com/mpod

Contact: mission@mrcy.com

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