



JTS0100

Jammer Training System

Train radar operators in ground-based, contested environments

- Emulate advanced jamming threats
- Train utilizing validated government techniques
- Set up in less than an hour
- Meet commercial shipping limitations



JTS0100 comprises three subsystems: signal processor, human-machine interface and antennas.

The Jammer Training System expands Mercury’s proven, advanced jamming technology for ground-based training environments. Users can perform over-the-air EW training to test and train radar and comms operators using realistic attacks. The JTS0100 is a full end-to-end solution for training operators in contested environments and testing radar systems against electronic attacks, resulting in better-prepared systems and operations.

FEATURES

- Up to 4 independent channels for simultaneous use across 2-18 GHz band
- Portability that meets commercial shipping limitations and quick set up
- Proven techniques with a validated EW threat library

SIZE

RF Signal Processor Subsystem

Size: 14" x 25" x 39" max
 Weight: 125 lb max
 Power: 1.3 KW max

HMI Subsystem

Size: 12" x 28" x 16" max
 Weight: 60 lb max
 Power: 0.3 KW max

Antenna Subsystem

Size: 22" x 25" x 48" max
 Weight: 190 lb max
 Power: 1.3 KW max

OPERATION

- Radar vulnerability assessment
- Radar operator training for EW environment
- Modular scalable RF architecture
- Coverage/config:
 - 2-6 GHz (1 to 2 channels)
 - 7-11 GHz (1 to 4 channels)
 - 2-6 GHz and 7-11 GHz (1 channel each)
- Single and multi-beam/multi-response
 - Up to 4 independent channels with 4 beams per channel
- Extensive techniques library including jamming and deception
- Designed for growth:
 - System scales to wideband (2-18 GHz)
 - Antennas, wiring, transport cases scale
 - SSPA update options for frequency extension

JTS0100 comprises three subsystems: signal processor, human-machine interface and antennas. Users can benefit from a turnkey system requiring minimal setup time and training without sacrificing capabilities. The JTS0100 is also sized to meet commercial shipping limitations for ease of transport.

FULLY INTEGRATED SYSTEM COMPONENTS

Human-machine interface (HMI) subsystem provides the operator interface for control and status of EW training. HMI subsystem is composed of:

- Transport airline luggage case
- Rugged Windows® laptop
- Installation CD-JETS and USB frequency synthesizer install S/W
- USB calibration frequency synthesizer
- Interconnect cables

Signal processor (SP) subsystem provides the signal tracking and signal modification to perform EW training. SP subsystem is composed of:

- Transport rack case
- DRFM subsystem up to 4 channels
- AC/DC 28 VDC power supply

Antenna (ANT) subsystem provides the signal reception and signal amplification to perform the over-the-air EW training. ANT subsystem is composed of:

- Transport rack cases
- Receive ANT
- Transmit ANT
- Tripods
- Solid-state power amplifier
- AC/DC 48 VDC power supply

PORTABILITY

Sized to meet commercial shipping limitations

External storage for unclassified transport

PERFORMANCE

Up to 4 independent channels to use across low (2-6 GHz) and mid (7-11 GHz) frequency band

POWER INTERFACE

Commercial power of 110 VAC 60 Hz at no more than 3 KW

Internal subsystem power conditioning available for MIL-STD-704F-rated military generator power (50/60 Hz - 110 volts)



Ruggedized for any terrain and set up in less than an hour



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