

# LABORATORY JSECST™



Textron Systems' Joint Service Electronic Combat Systems Tester (JSECST) is utilized for flight line and flight deck testing by every branch of the U.S. military, as well as numerous countries around the world. Now, the system is available in a configuration designed specifically for laboratory applications. The best of both worlds, the Lab JSECST can test aircraft combat systems on the flight line or in the laboratory – giving users the confidence they need in their mission-critical systems.

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**TEXTRON** Systems

► PUSHING PAST POSSIBLE

**USED AROUND THE WORLD, FROM THE FLIGHT LINE TO THE LAB**

Electronic warfare analysts constantly receive new signal intelligence and threat data. Lab JSECST keeps up by allowing users to quickly test, view and analyze jammer responses using a virtual spectrum analyzer, oscilloscope and timeline technique display. State-of-the-art displays and easy-to-use graphical interfaces provide users unprecedented visibility into the performance of the jammer. Proven in use across numerous platforms for customers around the world, the Lab JSECST brings all the same capabilities to the laboratory environment.

Scaled to fit a standard 19-by-19-inch rack, the Lab JSECS is a fully programmable stimulus and measurement system that supports vertical electronic combat system testability in the laboratory or maintenance depot.

## SPECIFICATIONS

Part Number: 40469-40100-10  
National Stock Number: 6940-01-619-8416  
Specifications subject to change without  
notice.

## STIMULUS PERFORMANCE REQUIREMENT

## FREQUENCY RANGE

500 MHz to 18.5 GHz

## PW RANGE

50 nanoseconds to 100 msec

## POWER OUTPUT RANGE

20 to -70 dBm

## MULTIPLEXED EMITTERS

Up to eight per radio frequency source

**PRI RANGE**

1 microsecond to 100 msec

## MEASUREMENT PERFORMANCE REQUIREMENTS

## FREQUENCY RANGE

500 MHz to 18.5 GHz

## PW RANGE

50 nanoseconds to 100 msec

## OVERALL DYNAMIC RANGE

-70 to 20 dBm

## ACQUISITION BANDWIDTH

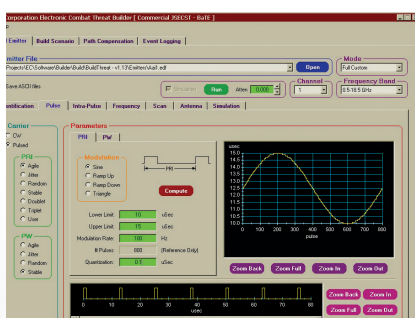
130 MHz, or greater than 400 MHz  
with compression

## DIGITIZING RATE

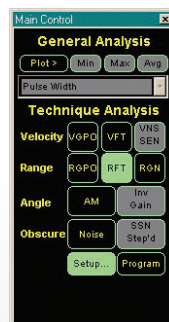
300 Msamples/sec.

## FEATURES

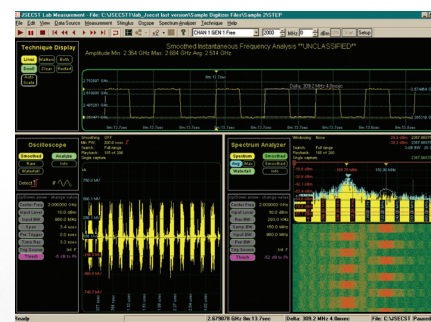
- > Lab JSECST's 17 printed circuit board assemblies are configured in a rack-mountable chassis.
- > Exclusive build-threat program simplifies the creation and simulation of complex threats.
- > Unique measurement software provides fully automated analysis of complex jammer responses.
- > Includes maintenance software for self test, calibration, alignment and path compensation.
- > Two-channel stimulus generates up to 16 emitters for frequency, pulse width, pulse repetition interval and scan pattern models.



Our build-threat graphical user interface allows easy emitter programming



Users can analyze complex jammer responses at the click of a button.



Textron Systems' exclusive measurement software provides fully automated analysis of complex jammer responses.