The Universal Test Set (UTS) is a portable, battery-powered, programmable, ruggedized RF test set designed to validate improvised explosive device (IED) jamming equipment. The unit is intended to provide an in-field confidence test for warfighters employing IED jammers prior to departure. The system executes preprogrammed test sequences that replicate threats and measure the expected jammer responses from the vehicle under test. These measurements are conducted using the build emitter, build measurement and build sequence applications. An operator display automatically provides the operator with go/no-go test results. Under a password option, advanced users also can call up a spectral display of the jammer response. The UTS can be used to test a large number of communication and communication jamming systems currently deployed worldwide.

Providing confidence and reliability through radio frequency (RF) test and training solutions

Part Number: 39202-40010-10
National Stock Number: 5865-01-580-1528
Specifications subject to change without notice.
UNIVERSAL TEST SET

KEY SPECIFICATIONS

FREQUENCY RANGE
Sufficient for current and future counter-radio-controlled IED electronic warfare, or CREW, jammers

OPERATING TIME
Eight hours continuous operation utilizing BB-5290 battery

MEASUREMENT
Uses timing protocol to determine operational status of the unit under test

ELECTROMAGNETIC BACKGROUND
Able to simultaneously measure and analyze background electromagnetic environment

DISPLAY
Direct sunlight and night vision compatible

EASE OF PROGRAMMABILITY
Field programmable using a laptop or external memory module

TRANSPORTABILITY
Commercial air carrier

STIMULUS MODULATION
Capable of providing continuous wave, or CW; AM and FM; amplitude-shift keying, or ASK; phase shift keying, or PSK; frequency-shift keying, or FSK; minimum-shift keying, or MSK; and Gaussian minimum-shift keying, or GMSK, waveforms. Capable of modulating the carrier signal with dual-tone, multi-frequency, tone, digital code and arbitrary waveform

COMPATIBILITY WITH PROTECTIVE CLOTHING
Mission Oriented Protective Posture Level IV, or MOPP IV, and cold weather gear

RF CABLE & ANTENNA MEASUREMENTS
Insertion loss and return loss/voltage standing wave ratio, or VSWR, measurements

TEST SET WEIGHT
Less than 12 pounds

TEST SET DIMENSIONS
7 inches (in.) x 14 in. x 9.5 in.

OPERATING/STORAGE TEMPERATURE
-20 to 140 degrees Fahrenheit (°F)/-28 to 160 °F

SELF TEST
Robust built-in test

POWER
Rechargeable BB-5290 battery