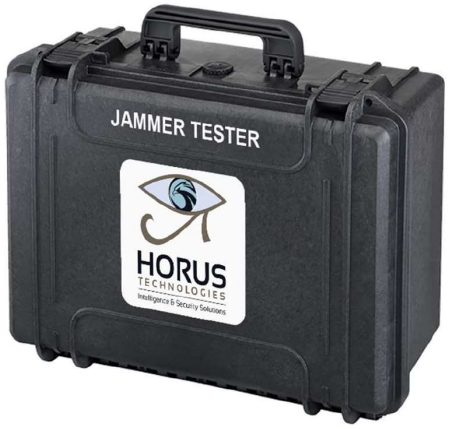
Jammer Tester

High-quality, Professional and Cost-Effective Solution



- Rugged device, housed in a sturdy case, usable in an operating environment for heavy duty use
- Specifically designed to test Jammers operating up to 6 GHz in reactive, active and hybrid modes
- Extremely easy to use even for non-specialised personnel
- Fully automated test procedure lasting a few seconds
- Results of very simple interpretation (Green: OK; Red: NO)
- Self-powered capability with internal rechargeable battery
- Integrated Web Server for programming test profiles, software updates and access to advanced functions
- Ability to memorize up to 4 test profiles programmed for different Jammer types and/or Jammer configurations
- Storage of tests results with date, time, final result and test details (display from integrated Web Server)
- Internal self-diagnosis procedure (Built In Test) and calibration verification

SETH has been developed with the aim to check, in the field, quickly, effectively and efficiently, the correct functioning of the Jammers, before they are used on a mission.

Designed and built with "state of the art" technologies, taking advantage of the experience gained in over 30 years of activity by a team of professionals made up of Jammer users and telecommunications system engineers, the Jammer Tester SETH is a synthesis of cutting-edge technology, quality, performance and reliability.

HORUS TECHNOLOGIES
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Seth

General Information & Performances		
Operational Features		
Frequency Range	70 – 6.000 MHz	
Frequency Resolution	1 kHz	
Operation Mode	Active/Reactive/Hybrid	
Number of Connections	Up to 8	N female Connectors - 50Ω
RF Power for each connection	120W	
Number of programmable test profiles	Up to 4	Each for different configurations of the same Jammer or for different types of jammer
Number of frequencies programmable for each test profile	Up to 32	Each frequency can be programmed in reactive or active mode
Programmable parameters for each test frequency in reactive mode		
Modulation of the generated signal in reactive mode	CW/FM/QPSK	Programmable
FM Deviation with modulating signal at 1 kHz	From 10kHz to 2MHz	Programmable at steps
Frequency bandwidth with QPSK modulation	From 20kHz to 40MHz	Symbol rate programmable at steps + 20% roll-off
Power of the generated signal in reactive mode	From -65dBm to -90dBm	Steps of 1dB
Measurement duration of the reaction time	From 100µs to 2000µs	10 µs resolution
Maximum acceptable reaction time for a positive result	From 100µs to 2000µs	Programmable at steps of 10 µs
Frequency bandwidth for the measurement of the jamming power	From 200kHz to 50MHz	Programmable at steps
Measurement of jamming power in the measurement windows	From 1W to100W	From +30dBm to +50dBm with 1dB resolution
Minimum acceptable power for a positive result	From 1W to100W	Programmable from +30dBm to +50dBm with 1dB resolution

Programmable parameters for each test frequency in active mode		
Frequency bandwidth for the measurement of the jamming power	From 200kHz to 50MHz	Programmable at steps
Measurement of jamming power in the measurement windows	From 1W to100W	From +30dBm to +50dBm with 1dB resolution
Minimum acceptable power for a positive result	From 1W to100W	Programmable from +30dBm to +50dBm with 1dB resolution
Integration time for the power measurement	From 100µs to 100ms	Programmable at steps
Control Panel		
Turn on/off	ON/OFF Switch	Battery can be charged even with the Tester OFF
System Status Indicators	READY/FAULT LEDs	
Selection of test profiles	Push button	
Test Profile Indicator	4 LEDs	The lit LED indicates the selected profile
Battery Level	4 LEDs	4 illuminated LEDs indicate that the battery is fully charged
Power IN Indicator	1 LED	When illuminated, it indicates that the tester is powered from an external power source
Start the test	1 button	It starts the test with the selected test profile
Test Result	1 LED	Yellow: Test in progress Green: Test passed Red: Test failed
Web Server	Ethernet Port	Access trough LAN connection
Access to Web Server	5 levels with different passwords	

Environmental, Mechanical and Electrical Characteristics		
Overall Dimensions	464 x 366 x 176 mm	Military sturdy case
Colour	Black	Can be personalized
Operating temperature	-5 /+45 °C	
Storage and Transport Temperature	-20/+60 °C	
Weight	≤10Kg	Inclusive of battery, external power supply and antenna connection cables
Battery capacity	70 W/h	
Supply Voltage	9-24 VDC	
DC Power Consumption	≤35W	
External Power Supply – Battery Charger	90/264 VAC 50/60 Hz	
Accessories		
RF Cables	8 RG 223 cables (120 cm) with N connectors	
Mains Power Supply	1	
Ethernet cable	1	
Operating and maintenance manual	1	
Brief Guide for on field operators	1	

Technical Specifications may be changed without notice