

missim – the only 4-in-1 solution for confidence testing self-protection systems



Accurate testing provides mission confidence. missim is the only 4-in-1 tester for fast and reliable tests of air, land and sea electronic warfare (EW) suites immediately before a mission.

Description

An innovative test solution for all self-protection sensors, missim **simulates radar, laser, guided missile and even Hostile Fire Indication (HFI) signatures** to test a wide range of EW systems. It is fast and easy to use, allowing testing to be conducted anytime and anywhere.

Following a brief test with customisable scenarios, users receive a **go/no-go result** and **confirmation of the performance** of the electronic warfare (EW) system's sensors. missim is **distance independent** and automatically adjusts its signal strength according to the distance from the EW system's sensor.

missim's **memory can be securely erased and sanitised within seconds** if necessary, preventing your customised scenarios from falling into the wrong hands.

Scope of supply

The missim set comprises the following components:

- missim (available with any combination of the 4 emitter classes)
- Programming tool (PC software)
- User manuals
- Rechargeable battery & charger
- USB cable
- Transport case



Using missim to test a helicopter's EW system



Missile, laser, HFI (left)
Missile, laser, HFI, radar (right)

Performance data

Radar	Frequency coverage	12 & 36 GHz
	Modulation	PRI: 5 µs – 100 ms PW: 0.05 – 100 µs or CW (12GHz)
Wideband Radar	Frequency coverage	1.5 – 18 GHz (adjustable in 1 MHz steps) & 36 GHz
	Modulation	CW (1.5 – 18 GHz), pulse, AM, FM, sweep
	Pulse range	PRI: 5 µs – 100 ms PW: 0.05 – 50 µs
Laser	Spectrum	525 / 905 / 1550 nm
	Laser class	Laser class 1, 2, 3R (eye safe at 25 cm / 10" distance)
	Modulation	PRI: 18 µs – 2 s PW: 1 µs – 10 ms (525 nm) PW: 10 ns – 100 ns (others)
Missile	Spectrum	UV (solar blind)
	Eye-safe	Yes, class 2
Hostile Fire Indication (HFI)	Spectrum	UV-C (solar blind)
	Profile programming	3 different calibres of ammunition available Scalable firing distance: 200–1,000 m
	Eye-safe	Yes, Class 2
Application Range	With distance compensation	0–20 m (66 ft)
Programmable emitters	Signatures (Radar, Laser, Missile, HFI)	255 each
	Scenarios	255



Benefits

- All-in-one solution – simulation of radar, laser, missile and Hostile Fire Indication (HFI) threats
- Secure erasable memory – protects custom scenarios from falling into the wrong hands
- Application range 0–20 m (66 ft)
- Automatic distance compensation – constant power density at the sensor
- EW system independent – simplifies logistics by using just one tester instead of many
- Complete, fast and uncomplicated testing
- Handy, stowable onboard equipment
- Built-in internal self-test
- Programming tool included at no extra cost (PC-based; requires Windows XP or higher)
- Regular software updates provide functional improvements over the complete life cycle

Compatibility

- EW-Suites: NH-90, F/A-18, F-5, C-130, IDAS/CIDAS, CAMPS, AMPS etc.
- MAW-200/300, AAR-54, AAR-57, AAR-60 (MILDS) etc.
- LWS-300 COLDS, LSU, ATLAS-2Q & 2QB, LWS-20, LWR 1223, SPS 65 etc.
- RWS-300/310/500, TWE, ALR-67 (V2) / (V3), APR-39, ALR-2000, Seer, Sky Guardian, ELT/156 etc.

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