MSS

Mobile Signal Simulator for Testing Warning Systems

CI Systems' Mobile Signal Simulator (MSS) is a configurable compact, hand-held, missile radiation simulation platform.

The MSS enables the operator to test the readiness and performance of Missile Warning Systems (MWS) in the flight line as a routine test and in the laboratory.

The MSS contains a miniature radiation source in the UV or IR band, with single or dual radiation sources. They are modulated by a built-in microprocessor capable of delivering a realistic simulation of the radiation emitted by any missile.

Any testing profile can be configured and uploaded onto the MSS using user-friendly software.

» Features

- Portable, compact and lightweight
- UV, SWIR, MWIR, LWIR bands
- Quick, easy operation
- Operates under field conditions
- RS232/USB computer interface
- User-friendly missile profile configuration software
- Independent profiles for each band
- Removable Micro SD Memory Card

» Models and Specifications

Model:	MSS-UV	MSS-IR Single Band	MSS-IR Dual Band
Wavelength Range	265±5nm (UV-C) (*)	One channel, suitable for NIR, SWIR, MWIR, LWIR	Two channels with MWIR filters ("blue" and "red" bands)
Illumination Field	> 7°	> 50°	> 7°
Maximum Radiant Intensity	Typical 1-10 mWatt/sr (exact value depends on band and filter selection) Higher intensity models are available upon request		

(*) Other wavelengths optional

CI SYSTEMS
www.ci-systems.com

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» Technical Information for all models:

Dynamic Range	> 10 bit
Emission Linearity	> 95%
Temporal Resolution	5 msec, minimum pulse width 15 msec
Number of Profile Data Files	Internal memory x10 profiles, each profile length 10 sec maximum (depending on temporal resolution) External memory (SD Card) x10 Profiles, each profile length 50 sec maximum
Aiming Device (optional)	Four optional rail-mounted aiming devices: Rifle Scope, Iron-Sight, Laser Pointer, Red-Dot (*) See images below. The MSS can be equipped with more than one aiming device, user-replaceable
Aiming Device Alignment Accuracy	< 0.5 deg. (accuracy between aiming device and center of emitted beam)
External ND Filter	Optional
External Micro SD Card	≥ 8 GB, removable for data security
Display Interface	OLED Display 0.96" (24.4mm) Diagonal Size
PC Interface	RS-232 / USB
Software	Windows-compatible software for configuring and uploading operating profiles to unit.
Battery	Rechargeable Li Ion 3.7 VDC / 5.2 Ah. (Sufficient capacity for simulating up to 200 full length, maximum radiance profiles)
Sizes (HxWxL)	22 x 7 x 15 cm for MSS without aiming device
Weight	1.2 Kg for MSS without aiming device, or up to 2kg with aiming device
Environmental Conditions	Certified for MIL-STD for rain, humidity, sand & dust, altitude, vibrations and loose cargo
Temperature Ranges	Operating: -10 to +55 ºC, Storage: -40 to +71 ºC

(*) Please contact CI Systems for more information and to select the optimal model for your application.

MSS with Laser Pointer Aiming Device

MSS with Rifle Scope Aiming Device

MSS with Iron Sight Aiming Device

MSS with Red-dot Aiming Device

Specifications are subject to change without prior notice. Cat. No. 607-xxxx Dec. 2024

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