

KNOW BEFORE YOU GO™

Train like you fight.



Man-Portable Aircraft Survivability Trainer (MAST)

Part Number: 40390-40002-10

Specifications subject to change without notice.



The MAST system records video of the training event for after-action review and playback.

AAI Corporation's MAST is a cost-effective, man-portable aircraft survivability trainer utilizing commercial, off-the-shelf (COTS) components. The optical simulator incorporates a light-emitting diode (LED) array for accurate stimulation. As a result, the MAST system accurately replicates the visual effects of an infrared (IR) threat-based weapon to stimulate aircraft survivability equipment (ASE) systems for more realistic training events. The trainer consistently delivers precise stimulation of missile warning systems, replicates the ultraviolet (UV) effects of surface-to-air missiles and provides comprehensive after-action video for continuing pilot skills development. The MAST system can stimulate the AAR-47, AAR-54, AAR-57 and AAR-60 missile warning systems (MWS) utilized by the U.S. Army, Navy and Air Force.

The MAST system takes full advantage of AAI's proven experience in ASE training, flight line testing and long-range electro-optic/infrared (EO/IR) test and training solutions.

Specifications

Mode of operation:	<ul style="list-style-type: none">■ Shoulder-fired infrared surface-to-air threats■ Replicates the visual effects of actual threats (UV)
Range:	<ul style="list-style-type: none">■ Stimulates MWS at ranges from 0.5-5 kilometers
System architecture:	<ul style="list-style-type: none">■ Multiple LED emitter■ COTS, detachable day/night recording capability for after-action review and playback■ Ergonomic controls■ Integrated Virtual Seeker to replicate the difficulty of acquiring and launching a man-portable air defense system■ Instrumentation to provide global positioning system (GPS) coordinates, azimuth and degree-from-horizontal during launch sequence
Compatibility:	<ul style="list-style-type: none">■ U.S. Army's multiple integrated laser engagement system, air-ground engagement system and tactical engagement system■ Stimulates AAR-47, AAR-54, AAR-57 and AAR-60 MWS
Ease of programmability:	<ul style="list-style-type: none">■ Easily reprogrammable and reconfigurable threat scenarios■ Acquisition times and lethality settings obtained through the GPS and optional radio frequency link to the aircraft
Transportability:	<ul style="list-style-type: none">■ Self contained and man portable
Weight:	<ul style="list-style-type: none">■ Less than 35 pounds
Power/charging:	<ul style="list-style-type: none">■ Onboard battery (power supply)■ Up to eight hours of power without recharging
Environment:	<ul style="list-style-type: none">■ Military standard, or MIL STD, 810F■ Army Regulation 70-38

For information please contact:

AAI Corporation
124 Industry Lane
Hunt Valley, MD 21030
800-655-2616
AAI-EO_IR@aai.textron.com

aaicorp.com

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