MAST™
MAN-PORTABLE AIRCRAFT SURVIVABILITY TRAINER

TEST, TRAINING & SIMULATION

TRAIN LIKE YOU FIGHT

The Man-Portable Aircraft Survivability Trainer (MAST) is designed to deliver threat stimulation of missile warning systems, replicating the UV effects of surface-to-air missiles. MAST offers day/night video recording for after-action review to support pilot capability building and technique development. MAST can simulate the AAR-47, -54, -57 and -60 missile warning systems utilized by the U.S. Army, U.S. Navy, U.S. Air Force and allied forces.

MAST utilizes commercial-off-the-shelf (COTS) components. The optical simulator incorporates a light-emitting diode (LED) array for accurate stimulation. Its integrated virtual seeker replicates the difficulty of acquiring and launching a man-portable air defense system.

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TEXTRON Systems

▶ PUSHING PAST POSSIBLE

MAN-PORTABLE AIRCRAFT SURVIVABILITY TRAINER (MAST)

MAST is designed, engineered and supported by the proven experience of Textron Systems. We are industry leaders in aircraft survivability equipment training, flight-line testing and long-range EO/IR test & training solutions. MAST features GPS instrumentation to provide coordinates, azimuths and degrees-from-horizontal measurements during a launch sequence.

SPECIFICATIONS

POWER
Onboard battery
Up to 8 hr per charge

GROSS WEIGHT
Less than 35 lb

AFTER ACTION VIDEO CAPABILITY
Day/night recording for review and playback

TRANSPORTABILITY
Self contained and man portable

CONFIGURATION
Trainer stimulates AAR-47, -54, -57 and -60 MWS

RANGE
0.5-5 km

SYSTEM ARCHITECTURE

> Multiple LED emitter

> Integrated Virtual Seeker to replicate the difficulty of acquiring and launching a man-portable air defense system

> 3rd generation FLIR technology

COMPATIBILITY

> U.S. Army's multiple integrated laser engagement system, air-ground engagement system and tactical engagement system

> Stimulate AAR-47, -54, -57 and -60 MWS

MODE OF OPERATION

> Shoulder-fired infrared surface-to-air threats

> Replicates the visual effects of actual threats (UV)

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