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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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.