

Aeromechanical Systems > Towed Targets

TLX-1 Low-Level Height-Keeping Tow Target



The main feature for the TLX target is the ability, via use of sophisticated, computer-controlled design, to realistically simulate an extremely low altitude missile threat. This is accomplished with a height-keeping flight profile which positions the TLX at any desired mission altitude from 20-500 feet while providing constant altitude feedback to the towing aircraft via telemetry link.

The TLX-1 offers the unique advantage of fully adjustable altitude settings during flight. This selected altitude is maintained to within ± 6 ft. throughout the mission. In addition to the low altitude simulation feature, the TLX can be fitted with various augmentation packages as required by the mission. All of these augmentation packages may be used simultaneously.

Passive radar enhancement is provided by an I/J/X-band screen reflector, which is coaxial mounted in the nose of the target. This reflector provides forward aspect radar augmentation to 3.5 square meters at I/J/X band. This reflector is used in conjunction with a clear plexiglass nosecone housing a 600,000 candlepower lamp if light augmentation is desired. Power for operation of the lamp and other electrical components of the TLX is provided by a 28 VDC generator driven by a ram air turbine at the tail cone.

The TLX height-keeping target, fully supported world-wide by Meggitt Defense Systems, fills a critical need for a realistic, versatile, reliable and affordable low altitude threat simulator target. Plume augmentation for infrared requirements is available on the TLX. This option provides all-aspect, realistic threat simulation for IR controlled and guided missile weapon systems.

The TLX infrared plume is also compatible with 76mm IR fused gun ammunition. Use of the plume generator avoids the artificiality and inconsistency of commonly used flare systems, difficulty in shipping and costs associated with them. An all-aspect laser retro-reflective augmentation package can be provided. Scoring/MDI for all types of missiles and guns is available to meet mission requirements.

Key features

- Realist sea-skimming threat simulation at 20-100 ft. altitude
- Stable height holding capacity: ± 6 ft. of selected altitude
- Control is via a PC based laptop computer using Windows. Information displayed includes demanded altitude, actual altitude, wing angle, battery status, lamp/scores/IR burner statuses
- Towbody, made of fiberglass reinforced polyester resin, provides light weight/low drag target which allows use of a longer towline than any comparable target
- Target altitude setting fully adjustable during flight
- Versatile augmentation options: radar, infrared, light, laser
- Target recoverable with standard two-way reeling machine
- All data stored for later analysis



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Specifications

Specification subject to change - TCO Review #141

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