

Aeromechanical Systems > Towed Targets

TGX-IR

All Aspect Realistic Infrared Signature Tow Target



The TGX-IR towed target provides a forward looking Infrared (IR) signature as well as an all aspect plume generator for maximum IR coverage. The forward looking IR source is electrically powered and optimized (using a high efficiency AR coating on the window) to provide up to 40 watts/str of radiant intensity in the 3 to 5 micron band. Power is provided via the air driven generator located at the aft end of the target and there is sufficient internal volume to install a scoring system if required.

The plume generator provides an all-aspect IR source for IR-guided and fuzed missiles and ammunition. It uses readily available jet fuel (JP-4, JP8, JET A, etc.) which, when burned, produces an infrared signature that replicates jet aircraft engine exhaust. The plume functionality is controlled via a laptop based interface and a telemetry link is used to transmit critical target parameters and user commands.

The TGX-IR provides threat representative head-on IR signatures while also offering simulated jet engine exhaust for realistic weapons engagements at an affordable cost.

Key features

- Aft and beam infrared signature provided by APC-6 plume generator (underneath target)
- Forward infrared provided by FIRE-40 (in nose)
- Power provided by ram air turbine generator located at tail.
- Laptop, Windows-based command and control system with automatic data file generation.

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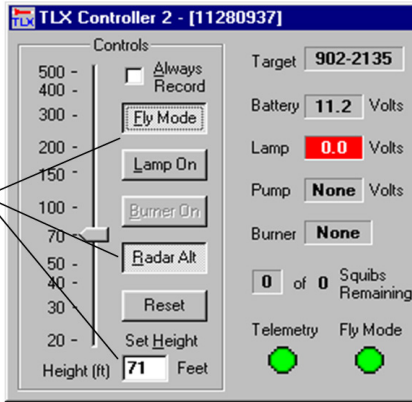
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Specifications

Weight	
empty	94 lbs
with fuel	113 lbs
Operating Speed	
minimum	250 KIAS
maximum	325 KIAS
Infrared augmentation hot nose - Fire40	
Forward aspect	3-5 micron band 40 w/STR
IR burner plume	
All aspect	1-5 micron
Presentation time (total)	8 minutes (7 ignoters)

Not
Applicable
to TGX-IR



Contact

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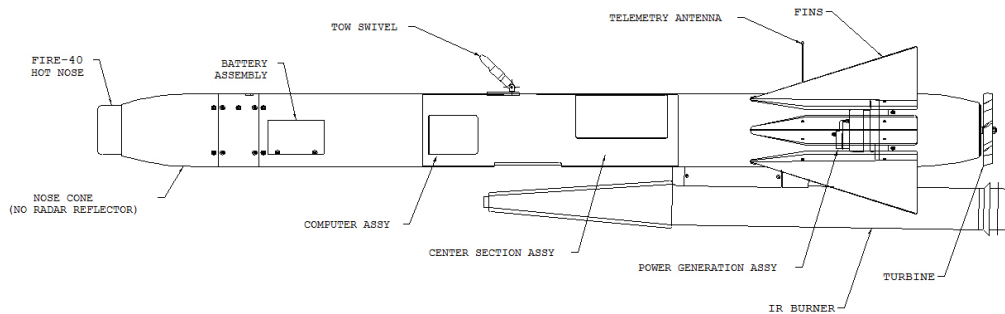
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Specification subject to change - TCO Review #178