

DATA SHEET

# TGX-IR

## All Aspect Realistic Infrared Signature Tow Target



### 01 Description

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.

### 02 Key features and benefits

- 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.

### 03 Applications

- Various

### 04 Contact

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**TGX-IR, All Aspect Realistic Infrared Signature Tow Target**

**05 Specifications**

**Weight**

Empty - 94 lbs  
with fuel - 113 lbs

**Operating Speed**

Minimum - 250 KIAS  
maximum - 325 KIAS

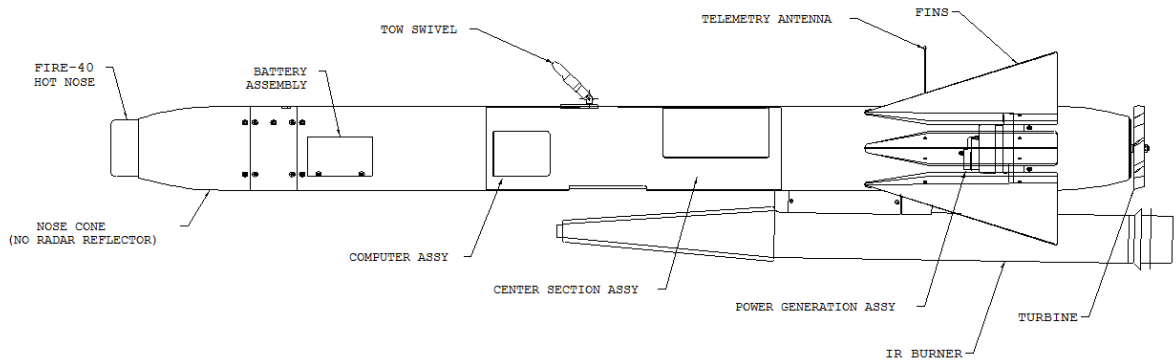
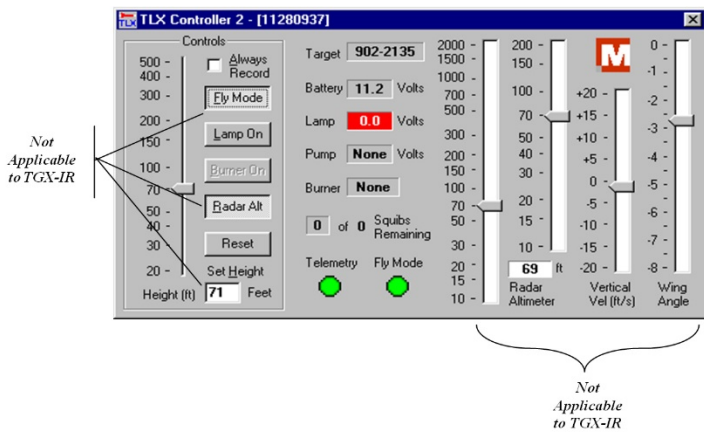
**Infrared augmentation hot nose - Fire40**

Forward aspect - 3-5 micron band  
40 w/STR

**IR burner plume**

All aspect - 1-5 micron  
Presentation time (total) - 8 minutes (7 igniters)

**06 Outline details**



Note: Due to continuous process improvement, specifications are subject to change without notice. TCO Review # 178