

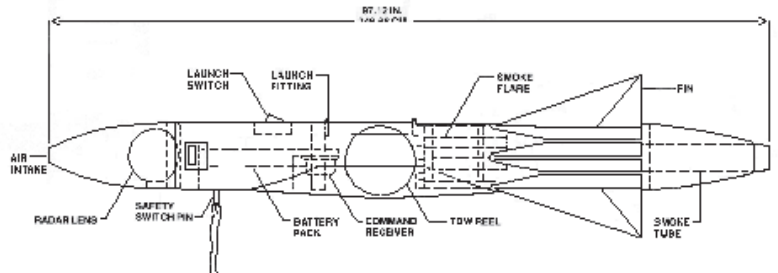


TVX Smoke Augmented Tow Target

The TVX is designed to provide visual enhancement of target acquisition and tracking for weapon systems which rely on optical sightings.

Five individual smoke flares mounted within the towbody and activated by a command receiver provide a dense smoke trail which can be seen easily within 10kilometers. A battery pack

provides power for the command receiver operation. Each smoke flare burns in excess of 2 minutes at sea level thus allowing five separate presentations for weapon systems evaluation and training. A command transmitter located either in the towing aircraft, aboard ship or near the weapon site is used to command ignition of the smoke flares. Radar augmentation is provided by Luneberg lens or an octahedral corner reflector.



A nose cone intake provides ambient air for flare ignition and burning. Smoke is exhausted through a tube in the tail cone. The fiberglass with polyester resin towbody is designed to be fitted and flown using the Meggitt Universal Tow Target LTC Launcher.

An internally mounted tow reel, mechanically controlled by design of the reel and brake assembly, provides towline payout when the target is launched. The towline is released at the launcher when a mission has been completed or the target destroyed. The target configuration can be altered to add a swivel fitting for two-way tow reel operation or single point ball lock suspension for drone operation.

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