

**Aeromechanical Systems** > Towed Targets

## APC-4 Infrared Plume Generator Target



The Meggitt Defense Systems Model APC-4 Plume Generator is an infrared augmentation device, which, when attached to the wing tip of a remotely piloted vehicle (drone) and operating, provides a realistic simulation of the IR signature of a turbo-jet aircraft engine.

The purpose of the wing tip plume generator is to augment the IR signature of the drone and to create an all-aspect IR source for IR-guided and fuzed missiles and ammunition.

When used in such a manner on a high-speed maneuvering drone, the plume generator pod becomes an ideal target and protects the drone from destruction by decoying the missiles away from the drone engine, thus substantially improving drone survivability.

The APC-4 utilizes jet fuel from the drone to produce hot exhaust gases that closely simulate the infrared signature of a turbo-jet engine. Breakaway adapters mounted to the drone wing tip assist in preventing damage to the drone when the pod is hit. In many instances, only the pod is destroyed or damaged and is easily replaced or repaired.

The APC-4 burning time is controlled through the drone command and control system. The pod can be commanded on and off at will during the flight. An installation kit that interfaces the pod with the drone provides: (1) mechanical adaptation to the drone wing tip, (2) electrical interface with the drone power bus and command/control system, (3) RF compatibility with the scoring system, and (4) connection with the drone fuel system.

The APC-4 Plume Generator pods can be equipped with antennas for scoring systems and temperature monitors which provide continuous ground readout through the drone telemetry system.

### Key features

- Burns jet engine fuel
- Realistic IR simulation of turbo-jet engine exhaust gases
- Low drag configuration
- Provides temperature monitor
- Interfaces with scoring systems
- Highly reliable-lowest mission cost
- Provides all-aspect radiation pattern
- Simple maintenance and operation
- Enhances drone survivability-recoverable, reusable
- Pilot light allows unlimited lights, relights

Meggitt Defense Systems

**Our product competencies and services:**

Ammunition Handling Systems | Thermal Management | Countermeasures | **Towed Targets** | Electronic Systems

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smart engineering for  
extreme environments



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### Specifications



Specification subject to change - TCO Review #XXX

### Contact

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