



Vindicator

Unmanned aerial vehicle - target

The Vindicator is a cost effective, recoverable, remotely piloted, basic training target. It is designed to simulate the threat of missiles and aircraft for air defence systems.



Vindicator is designed to emulate realistic threats

MTSC's high performance Flight Control System provides the reliable and stable characteristics that are successfully used with the Canadian Forces, US Navy and other international customers.

The VINDICATOR is capable of replicating the following threats:

- High Diver Threat,
- UAV Threat,
- Low-Slow-Flyer Threat, and
- Helicopter Threat.

Key features

- Fixed-wing and rotary-wing radar signatures
- Reliable performance
- Cost-effective solution
- Operations in extreme environmental conditions
- Capable of over 100 NM operating range
- User-friendly interface
- Land or sea based operations

Specifications

Physical Dimensions

Wingspan	2.59 m (8.5 feet)
Length	2.72 m (8.75 feet)
Height	0.51 m (1.66 feet)
Wing Area	1.7 m ² (18.6 feet ²)
Dry Weight	68 kg (150 lbs)
Take off Weight	84 kg (185 lbs) (typical)
Fuel Capacity	23 L (5 Imp Gallons)
Power Plant	AR 731 Rotary Engine (35 bhp)

Performance

Speed Range	105 - 322 km/h (65-200 mph) (57-174 kts)
Launch Speed	Catapult - 105 km/h (65 mph) (typical)
Range (Nominal)	>35 km (22 miles)
Range (with Relay)	160 km (100 miles)
Operational Envelope:	
Max Altitude	4572 m (15000 feet) ASL
Min Altitude	5 m (16 feet) AGL (with radar altimeter)
Endurance	180 minutes
Recovery	Parachute or skid landing

Typical Payloads

Up to 20 lbs of Electronics
16 smoke tracking flares
HRSS - Helicopter Radar Signature Simulator
IR Hot Nose for increased heat signature

Optional Payloads

Lights & strobes
Radar altimeters
Range transponders
Tracking beacons and cameras

Note: Due to continuous process improvement, specifications are subject to change without notice.

Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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