

# FALCON X

## Capability Cut Sheet

### SYSTEM OVERVIEW

The Multi-Mission Deployable Drone System (MMDS), codenamed FALCON-X, is a modular unmanned aerial platform engineered for dynamic mission adaptability. Designed to transition seamlessly between aerial operations and static surveillance, MMDS redefines versatility in the field by eliminating the need for auxiliary ground equipment.

### KEY CAPABILITIES

- Dual-Modality Design:** Transforms from airborne UAV to ground-based camera/sensor platform (tripod/selfie-stick form factor) without external modifications.
- Tactical Reconnaissance:** Equipped for thermal, photogrammetric, IR sensor, Burstpod, or ammo payloads.
- Stealth Storage & Deployment:** Collapsible architecture allows for low-profile carriage and rapid deployment.
- On-Ground Stability:** Anti-slip landing gear integrated into folding arm segments offers stable recon post-landing.

### TECHNICAL SPECIFICATIONS

Airframe Configuration:	Quad-arm system with dual-jointed articulation and telescopic structure
Propulsion:	Multi-rotor system with retractable propeller blades via spring-loaded joints
Landing Gear	Convertible arms serve as propeller guards, tripod legs, and structural armor
Payload Capacity:	Modular mount compatible with EO/IR sensors, comms relays, or SIGINT arrays
Power System:	Option for electric motor or fuel-based propulsion (fuel container included)
Control Interface:	Remote command via secure wireless uplink with autonomous mode fallback
Processor:	Onboard control unit with actuator management for deployment modes
Materials:	Aerospace-grade composite structure; anti-slip terminal foot grips

### TACTICAL APPLICATIONS

- Reduces gear footprint for small units
- Enables persistent surveillance with no repositioning needed
- Replaces need for tripods, boom arms, and remote sensors
- Rapidly deployable from compact form factor
- Ideal for austere environments, forward observation posts, or naval launch

### CONTACT

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