

ISR THREAT SPECTRUM KIT

Full Fixed-Wing ISR Recognition Across Five Platform Classes

SDVOSB

14 PLATFORMS | 5 CLASSES | NON-FLYING SURROGATES

QUOTE VALID 30 DAYS

This kit delivers a broad cross-section of non-flying fixed-wing drone surrogates spanning five distinct platform classes, providing bomb technicians with comprehensive ISR threat recognition capability. From compact dual-motor OWA platforms to large-format composite flying wings, this collection covers the full range of fixed-wing ISR airframes encountered in current threat environments. The inclusion of a VTOL hybrid platform introduces autonomous launch-and-recovery concepts critical to understanding modern threat employment. All 14 platforms are provided as static training aids — not configured for flight — enabling safe, hands-on characterization, material identification, and defeat planning across the ISR threat spectrum.

PLATFORM DESCRIPTIONS

1. Small Dual-Motor Flying Wing **x5 units**

730mm wingspan | Dual-motor | 120+ km/h | ~65 min endurance

Compact, high-speed twin-motor flying wing. EPP foam with carbon fiber and aluminum reinforcement. Represents the proliferating category of small, low-cost fixed-wing UAS used for short-range ISR and one-way attack. Quick-release structure enables rapid field assembly and high concealability during transport.

THREAT CATEGORY: **Short-range ISR / OWA**

2. VTOL-Capable Hybrid Fixed-Wing **x1 units**

1,200mm wingspan | VTOL transition | Integrated autopilot + GPS | Autonomous capable

Mid-size VTOL fixed-wing with integrated autopilot and GPS navigation. Bridges multirotor and conventional fixed-wing UAS, enabling launch from confined areas without runway or catapult. Representative of operator-independent UAS deployed in contested urban terrain.

THREAT CATEGORY: **Urban ISR / Autonomous ops**

3. Large-Format Flying Wing — Foam Construction **x4 units**

2,122mm wingspan | 1–2 kg payload | 65–70 km/h | 25 min endurance

Full-size delta flying wing for extended-range ISR and payload delivery. Durable expanded polyolefin foam. The most commonly encountered class of medium-endurance fixed-wing UAS in state and non-state actor inventories. Large payload bay with hand or catapult launch.

THREAT CATEGORY: **Medium-range ISR / Payload delivery**

4. Medium-Format Flying Wing **x3 units**

1,500mm wingspan | Up to 2 kg MTOW | 40 km/h cruise | 25 min endurance

Mid-tier fixed-wing prioritizing manportability and low logistics burden. Frequently employed for smuggling, border penetration, and low-signature reconnaissance. High wind resistance and extended endurance make it capable in degraded conditions.

THREAT CATEGORY: **Smuggling / Low-signature ISR**

5. Large-Format Flying Wing — Composite Construction **x1 units**

2,122mm wingspan | GFRP composite | Upgraded durability | 1–2 kg payload

Glass-fiber-reinforced polymer variant of the large flying wing. Represents next-gen fixed-wing airframes migrating from foam to composite for repeated-use ISR and survivability in higher-impact recovery scenarios. Relevant to post-blast analysis and material identification training.

THREAT CATEGORY: **Advanced ISR / Composite threat**

KIT MANIFEST & PRICING

#	Platform Class	Qty	Unit Price	Extended
1	Small Dual-Motor Flying Wing	5	\$300	\$1,500
2	VTOL-Capable Hybrid Fixed-Wing	1	\$1,850	\$1,850
3	Large-Format Flying Wing — Foam Construction	4	\$750	\$3,000
4	Medium-Format Flying Wing	3	\$650	\$1,950
5	Large-Format Flying Wing — Composite Construction	1	\$1,550	\$1,550
		14	TOTAL	\$9,850

WHAT'S INCLUDED

- ✓ 14 fixed-wing UAS airframes across 5 platform classes
- ✓ Receiving, inspection, labeling & consolidated packaging
- ✓ Import compliance, customs clearance & CONUS freight
- ✓ Digital training reference package with platform specs & threat context

NOT INCLUDED (ADD-ONS)

- Batteries, flight controllers, receivers, GCS, antennas (available as fly-ready BOM add-on)
- On-site instructor-led training (available separately)
- OCONUS delivery (quote on request)

TERMS & ADVISORIES

- **Lead Time:** 6–8 weeks PO to CONUS delivery. Multiple items made-to-order (7–16 day production + intl shipping).
- **Tariffs:** Estimated import duties included. If rates change materially before import, IE reserves the right to adjust with notice.
- **Validity:** 30 days from issue. Vendor pricing confirmed at time of order.
- **Payment:** Net 30 from delivery, or as negotiated. Government POs and GSA schedule accepted.

READY TO PROCURE?

Contact Improvised Electronics to finalize your order, customize the kit, or add fly-ready electronics packages.

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