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DEFENDX TECHNOLOGIES INC.

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MASTER UAV THREAT INTELLIGENCE REPOSITORY

Global UAS Database & Counter-Drone Intelligence Compendium

4,500+

UAV Platforms

380+

Manufacturers

50+

Countries

8

Threat Classes

Prepared by:

DefendX Technologies Inc. — UAV Intelligence Division

Audience:

Counter-UAS Research · Defense · Airports · Critical Infrastructure · Border Security

Data currency:

2024 – 2026 · Informational purposes only — independently verify all data

Legal status:

Open-Source Intelligence (OSINT). See Legal Disclaimers on Page 2.



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Executive Summary

Mission, Scope & Strategic Objectives

MISSION STATEMENT

This Master UAV Threat Intelligence Repository constitutes a comprehensive, multi-tiered open-source intelligence compendium documenting the global unmanned aerial system (UAS) landscape for informational and research purposes. Compiled by DefendX Technologies Inc. to support counter-drone research and awareness, this repository is intended to assist authorized security organizations, defense researchers, airport authorities, critical infrastructure operators, border security agencies, and law enforcement in understanding the UAV threat environment. All information is based on publicly available open-source data. See Legal Disclaimers for important limitations on use.

4,500+

UAV Platforms
(Estimated)

380+

Active Global
Manufacturers

~70%

DJI Estimated
Market Share*

\$20.3B

C-UAS Market
Projection 2030*

* Market share and financial estimates are forward-looking projections sourced from third-party research. See Forward-Looking Statements disclaimer. Independent verification recommended.

SCOPE & PRIMARY SOURCES

Sources Consulted

- Publicly available manufacturer datasheets
- Jane's Defence (publicly released extracts)
- SIPRI publicly available database
- FAA publicly available UAS sighting data
- Transport Canada public CADORS records
- IEEE published academic papers
- NATO publicly available standards
- EASA & ICAO public regulatory filings
- Public patent databases
- Public defense procurement announcements

Sectors Covered

- Consumer / Prosumer UAVs
- Commercial & Enterprise platforms
- Industrial & Agricultural drones
- Government & Public Safety UAS
- Military ISR (publicly disclosed)
- Loitering munitions (public info only)
- FPV tactical platforms
- Swarm UAS concepts
- VTOL & Hybrid platforms
- Cargo & delivery UAS

Research Outputs

- Publicly documented RF band profiles
- Published radar cross-section estimates
- Indicative risk index (research only)
- General detection approach notes
- Sector-specific awareness profiles
- Country & market analysis
- Academic citation framework
- Publicly available acoustic profiles
- General counter-measure approaches
- Educational taxonomy reference

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UAS Structural Taxonomy & Classification

NATO-Extended Performance Banding & Airframe Reference Matrix

AIRFRAME CLASSIFICATION REFERENCE MATRIX

The following table provides a general reference taxonomy based on publicly available NATO classification frameworks and open academic literature. RCS values are approximate published estimates and will vary significantly with platform configuration, frequency, and aspect angle.

Airframe Class	Lift Vector	Footprint	Est. RCS (m²)	Acoustic Profile	Radar Profile	C-UAS Complexity
Quadcopter	4× Direct Drive	< 1.2 m	~0.01–0.05	High / 4–6 kHz	Very Low	High
Hexacopter	6× Direct Drive	< 1.8 m	~0.03–0.08	High / 3–5 kHz	Low	High
Octocopter	8× Coaxial	< 2.5 m	~0.05–0.15	Medium / 2–4 kHz	Medium	High
Fixed Wing	Aero + Prop	1–40 m	~0.1–5.0	Low / Variable	High	Medium
VTOL Hybrid	Lift + Pusher	1.5–5 m	~0.05–0.2	Variable	Medium	High
Helicopter	Main+Tail Rotor	1–6 m	~0.1–1.5	High Distinctive	Medium	Medium
Delta Wing OWA	Piston/Jet	2–15 m	~0.1–0.5	Extreme/Engine	Medium	Critical
Tube-Launched FW	Rocket+Fold Wing	0.5–2 m	~0.01–0.05	Very Low	Very Low	Severe

NATO PERFORMANCE BANDING REFERENCE

NATO Class	Mass	Alt. AGL	Speed	Radius	Sub-Categories	Example Platforms (Public Info)
Class I — Micro (<2 kg)	< 2 kg	< 400 ft	< 100 kts	< 5 km	FPV, Nano drones, tethered	DJI Mini series, Ryze Tello, Avata series
Class I — Mini (2–15 kg)	2–15 kg	< 1,200 ft	< 100 kts	< 50 km	Consumer prosumer, small enterprise	DJI Air series, Autel EVO II
Class I — Small (15–150 kg)	15–150 kg	< 5,000 ft	< 120 kts	< 100 km	Small tactical, mini VTOL ISR	DJI M350 RTK, WingtraOne (publicly documented)
Class II — Tactical (150–600 kg)	150–600 kg	< 10,000 ft	< 200 kts	< 200 km	Tactical ISR, Light MALE	ScanEagle, Aerosonde (publicly disclosed)
Class III — MALE (>600 kg)	> 600 kg	< 45,000 ft	> 200 kts	Global	MALE ISR/Strike, Loitering	MQ-9, TB2 (publicly known military platforms)
Class III — HALE (Strategic)	> 1,200 kg	< 65,000 ft	> 300 kts	Global	Persistent HALE surveillance	RQ-4 Global Hawk (publicly disclosed)

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Global Manufacturer Index

Active Sovereign & Commercial UAV Production Entities

The following index is based exclusively on publicly available information from manufacturer websites, public regulatory filings, and open-source defense publications. All trademarks and product names are the property of their respective owners. Inclusion in this index does not imply affiliation with or endorsement by DefendX Technologies Inc. Market position estimates are approximate.

Company	Country	Found ed	Segment	Key Platforms (Publicly Disclosed)	Est. Market Position
DJI (Da-Jiang Innovations)	China	2006	Consumer/Enterp rise	Mini 4 Pro, Matrice 350, Avata 2, Agras T50	~70%+ estimated global consumer share
Autel Robotics	China/US A	2014	Consumer/Enterp rise	EVO Nano, EVO II, EVO Max 4T	~11% estimated global share
Skydio	USA	2014	Enterprise/Defen se	X10, X10D, R1, Skydio 2+	US enterprise market leader
AeroVironment	USA	1971	Military/Defense	RQ-20 Puma, Switchblade series, Jump 20	US Defense prime contractor
Baykar Technologies	Turkey	1984	Military/Export	TB2, TB3, Kizilerlma, Akinci (public disclosures)	Leading MALE export manufacturer
Elbit Systems	—	1966	Military /Defense	Hermes series, Skylark, SkyStriker (public)	Top-tier defense manufacturer
IAI (Aerospace)	—	1953	Military/MALE	Heron TP, Harop, Harpy, Bird-Eye (public)	Strategic defense manufacturer
General Atomics	USA	1955	Military MALE/HALE	MQ-9 Reaper, MQ-9B SkyGuardian (public)	Primary US Air Force supplier
Northrop Grumman	USA	1939	Military HALE	RQ-4 Global Hawk, MQ-8 Fire Scout (public)	US DoD strategic supplier
Parrot SA	France	1994	Consumer/Enterp rise	ANAFI USA GOV, ANAFI Ai, Bluegrass	EU market leader
Quantum Systems	Germany	2015	Enterprise Survey	Trinity F90+, Vector VTOL	EU enterprise specialist
WingtraOne / Sony	Switzerla nd	2014	Survey/Mapping	WingtraOne GEN II	Survey/mapping specialist
Anduril Industries	USA	2017	Defense/Autono my	Ghost 4, Roadrunner-M (publicly announced)	Defense technology startup
Shield AI	USA	2015	Military Autonomy	Nova 2, V-BAT, HIVE (publicly announced)	AI autonomy specialist
Boeing / Insitu	USA	1994	Military ISR	ScanEagle, RQ-21 Blackjack (public)	Military ISR prime contractor
Textron Systems	USA	—	Military Tactical	RQ-7 Shadow, Aerosonde, Altius-600	US Army UAS supplier
Joby Aviation	USA	2009	UAM / Air Taxi	Joby S4 eVTOL	Urban air mobility pioneer
EHang	China	2014	UAM / Cargo	EH216-S, VT-30	Asia AAM market leader
Zipline International	USA	2014	Medical Delivery	Platform 2	Medical delivery market leader
JOUAV	China	2010	Industrial ISR VTOL	CW-007, CW-15, CW-25	VTOL industrial specialist

Company	Country	Found ed	Segment	Key Platforms (Publicly Disclosed)	Est. Market Position
DJI Agriculture	China	—	Agricultural	Agras T50, T25, T10	Agricultural market dominant
Shahed / HESA	Iran	—	Military OWA	Shahed series (publicly documented conflicts)	OWA munition manufacturer
CASC	China	1999	Military MALE	CH-4 Rainbow, CH-5 (public)	Chinese state MALE manufacturer
WB Electronics	Poland	—	Loitering Munition	Warmate, FlyEye	NATO partner manufacturer

4

Consumer & Prosumer UAV Database

High-Volume Platforms — Highest Documented Incident Frequency

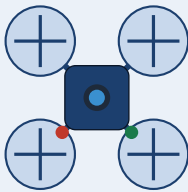
All platform descriptions are based on publicly available information only. Documented threat patterns are included for authorized counter-UAS awareness purposes only. Indicative risk indices are research assessments, not certified threat ratings. Frequency band information is general and based on publicly documented ISM and regulatory bands.

DJI Mini 4 Pro

DJI (Da-Jiang Innovations) · China · 2023

Consumer / Prosumer — Folding Quadcopter Platform

MEDIUM



Airframe:

Weight:

Max Speed:

Endurance:

Range:

Quadcopter (Foldable)

249 g

~57 km/h

~34 min

~20 km (per published specs)

KNOWN FREQ BANDS

2.4G

5.2G

5.8G

Indicative Risk Index

65/100

DOCUMENTED THREAT PATTERN: Publicly documented: airport proximity violations, unauthorized airspace entry.

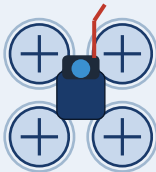
Publicly documented consumer folding quadcopter. At 249g it falls below many national registration thresholds. Operates across 2.4 GHz and 5.8 GHz ISM bands per manufacturer public specifications. Broadcasts Remote ID per regulatory requirements in applicable jurisdictions. Widely referenced in Transport Canada and FAA public incident databases.

DJI Avata 2

DJI (Da-Jiang Innovations) · China · 2024

Consumer / FPV Prosumer — Integrated Propeller Guard Design

MEDIUM



Airframe:

Weight:

Max Speed:

Endurance:

Range:

Quadcopter FPV (Integrated Guards)

377 g

~97 km/h

~23 min

~13 km (per published specs)

KNOWN FREQ BANDS

2.4G

5.2G

5.8G

Indicative Risk Index

68/100

DOCUMENTED THREAT PATTERN: Publicly documented: correctional facility vicinity incidents, unauthorized confined-space

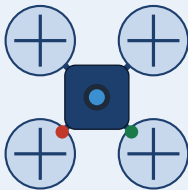
Consumer FPV platform with integrated propeller guards enabling operation in near-structure environments. Operates on 2.4/5.2/5.8 GHz ISM bands per manufacturer documentation. Compact form factor documented in public incident reports near correctional facilities. Supports Remote ID per regulatory requirements in applicable markets.

DJI Air 3

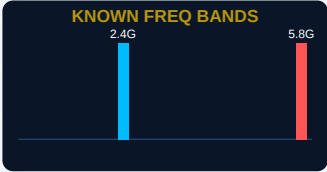
DJI (Da-Jiang Innovations) · China · 2023

Consumer / Prosumer — Dual Camera Platform

MEDIUM



Airframe:	Quadcopter (Foldable)
Weight:	720 g
Max Speed:	~75 km/h
Endurance:	~46 min
Range:	~20 km (per published specs)



DOCUMENTED THREAT PATTERN: Publicly documented: airport proximity incidents, unauthorized event airspace.

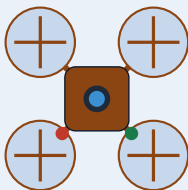
Premium consumer folding quadcopter with dual camera system. Extended ~46-minute endurance documented in publicly available manufacturer specifications. Operates on 2.4/5.8 GHz ISM bands. Remote ID compliant per applicable regulations. Referenced in multiple public incident databases near airports and event venues.

Autel EVO II Pro V3

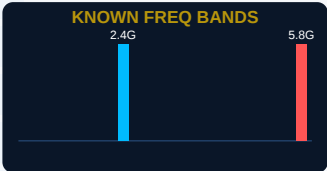
Autel Robotics · China/USA · 2022

Consumer / Prosumer — NDAA-Positioned Alternative Platform

MEDIUM



Airframe:	Quadcopter (Foldable)
Weight:	915 g
Max Speed:	~72 km/h
Endurance:	~42 min
Range:	~15 km (per published specs)



DOCUMENTED THREAT PATTERN: Publicly documented: aerial surveillance applications, regulatory boundary proximity inc

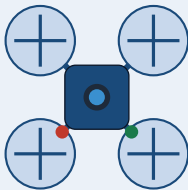
Consumer/prosumer folding quadcopter positioned as an alternative to DJI platforms in markets requiring National Defense Authorization Act (NDAA) compliance considerations. Published specifications indicate 2.4/5.8 GHz ISM band operation. Publicly available manufacturer documentation referenced. All trademarks property of respective owners.

DJI Mavic 3 Enterprise

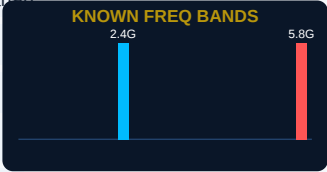
DJI (Da-Jiang Innovations) · China · 2022

Commercial / Enterprise — Multi-Sensor Configuration Platform

HIGH



Airframe:	Quadcopter (Foldable Industrial)
Weight:	920 g
Max Speed:	~75 km/h
Endurance:	~45 min
Range:	~15 km (per published specs)



DOCUMENTED THREAT PATTERN: Publicly documented: critical infrastructure vicinity incidents, facility reconnaissance

Enterprise evolution of consumer Mavic platform supporting wide, telephoto, and thermal sensor configurations per manufacturer published documentation. RTK module option documented publicly. Extended ~45-minute endurance with 15 km range per manufacturer specifications. Documented in public incident reports near energy installations and government facilities.

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Commercial & Enterprise UAV Database

High-Capability Platforms — Critical Infrastructure Awareness Tier

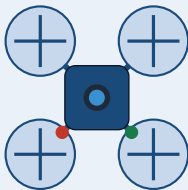
All platform descriptions are based on publicly available information only. Documented threat patterns are included for authorized counter-UAS awareness purposes only. Indicative risk indices are research assessments, not certified threat ratings. Frequency band information is general and based on publicly documented ISM and regulatory bands.

DJI Matrice 350 RTK

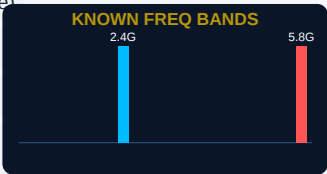
DJI (Da-Jiang Innovations) · China · 2023

Commercial / Enterprise / Industrial — Multi-Payload Platform

HIGH



Airframe:	Quadcopter (Industrial Frame)
Weight:	6.4 kg (per spec)
Max Speed:	~82 km/h
Endurance:	~55 min
Range:	~20 km (per published specs)



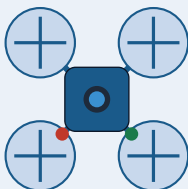
DOCUMENTED THREAT PATTERN: Publicly documented: industrial facility proximity incidents, infrastructure reconnaissa
Industrial enterprise UAV platform. Per publicly available manufacturer specifications, supports payload capacity up to 2.7 kg and compatible with various sensor payloads. Operates on 2.4/5.8 GHz ISM bands per published documentation. RTK positioning documented in manufacturer public materials. All product names are trademarks of their respective owners.

Skydio X10 / X10D

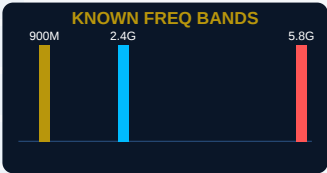
Skydio Inc. · USA · 2023

Enterprise / Government / Defense — Autonomous Navigation Platform

CRITICAL



Airframe:	Quadcopter (Modular)
Weight:	2.1 kg
Max Speed:	~75 km/h
Endurance:	~40 min
Range:	~12 km / Extended via 5G (per published specs)



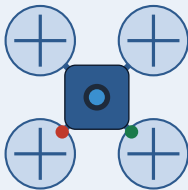
DOCUMENTED THREAT PATTERN: Noted in security literature: autonomous navigation capability relevant to restricted ar
Enterprise autonomous UAV platform. Per publicly available manufacturer materials, features onboard AI-based navigation capability. Operates across 900 MHz/2.4 GHz/5.8 GHz ISM bands and supports 5G cellular connectivity per published specifications. Listed on publicly available NDAA-compliant Blue UAS framework. All product names are trademarks of their respective owners.

Parrot ANAFI USA GOV

Parrot SA · France · 2020

Enterprise / Government / Public Safety — NDAA-Compliant Platform

MEDIUM



Airframe:

Weight:

Max Speed:

Endurance:

Range:

Quadcopter (Foldable)

500 g

~55 km/h

~32 min

~8 km (per published specs)

KNOWN FREQ BANDS

2.4G

5.8G

Indicative Risk Index

55/100

DOCUMENTED THREAT PATTERN:

Low documented misuse; primarily government/first responder platform.

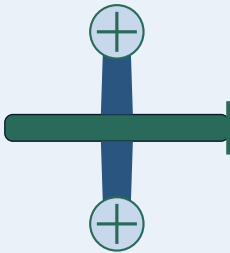
Enterprise folding quadcopter designed for government and public safety applications. Publicly marketed as NDAA-compliant and deployed by various government agencies per publicly available procurement and press release information. Operates on 2.4/5.8 GHz ISM bands per manufacturer documentation. All trademarks are property of their respective owners.

WingtraOne GEN II

Wingtra AG (Sony) · Switzerland · 2021

Commercial / Survey & Mapping — VTOL Fixed-Wing Platform

LOW



Airframe:

Weight:

Max Speed:

Endurance:

Range:

VTOL Tailsitter Fixed-Wing

4.2 kg

~90 km/h cruise

~59 min

Coverage area per manufacturer spec

KNOWN FREQ BANDS

900M

2.4G

Indicative Risk Index

28/100

DOCUMENTED THREAT PATTERN:

Low documented misuse; primarily professional survey and mapping operations.

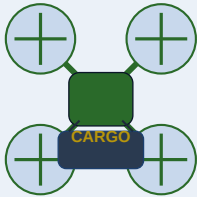
Professional VTOL fixed-wing platform for survey and mapping applications. Per publicly available manufacturer specifications, transitions from vertical takeoff to fixed-wing cruise flight. Operates on 900 MHz/2.4 GHz bands per documentation. Primarily used for precision agriculture and topographic survey. All product names are trademarks of their respective owners.

DJI Agras T50

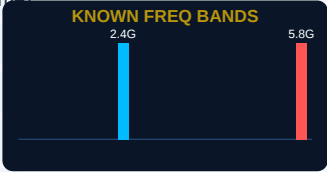
DJI Agriculture · China · 2023

Industrial / Agricultural — Heavy Lift Agricultural Platform

MEDIUM



Airframe:	Hexacopter (Agricultural Frame)
Weight:	47.5 kg MTOW
Max Speed:	~36 km/h working
Endurance:	~22 min
Range:	~7 km (per published specs)



DOCUMENTED THREAT PATTERN: Publicly noted: large payload capacity requires consideration in security planning frame

Industrial agricultural hexacopter platform. Per publicly available manufacturer documentation, designed for precision spraying with 40L spray tank capacity. Operates on 2.4/5.8 GHz ISM bands per manufacturer specifications. Large payload capacity noted as a security planning consideration in publicly available agricultural drone security literature. All trademarks property of respective owners.

6

Military, Tactical & Loitering Munitions

Publicly Documented Defense Platforms — For Authorized Research Only

IMPORTANT NOTICE — SECTION 6

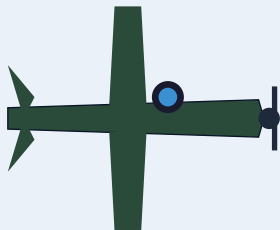
All platforms described in this section are documented exclusively from publicly available open-source information, including officially published government procurement documents, manufacturer press releases, public conflict documentation, and peer-reviewed defense publications. No classified, restricted, or proprietary information is included. This section is intended solely for authorized counter-UAS threat awareness research. Consult applicable export control authorities before distributing this section in any jurisdiction with dual-use technology restrictions.

Bayraktar TB2

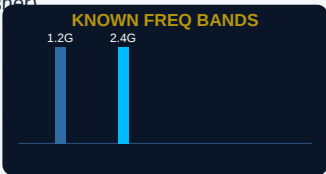
Baykar Technologies · Turkey · 2014

Military MALE — Publicly Documented ISR & Strike Platform

CRITICAL



Airframe:	Fixed-Wing (Twin-Boom Pusher)
Weight:	650 kg MTOW (published)
Max Speed:	~222 km/h (published)
Endurance:	~27 hours (published)
Range:	Publicly documented operational radius



Indicative Risk Index 95/100

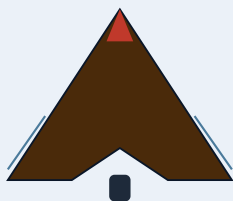
DOCUMENTED THREAT PATTERN: Documented publicly: combat deployments across multiple internationally reported conflict zones. Publicly documented Turkish MALE UAV. Per publicly available government and manufacturer sources, has been deployed in multiple internationally reported conflict zones. Publicly documented as armed with laser-guided munitions per manufacturer-released materials. Acquired by 30+ nations per public procurement announcements. All specifications are from public sources only. All trademarks owned by

AeroVironment Switchblade 600

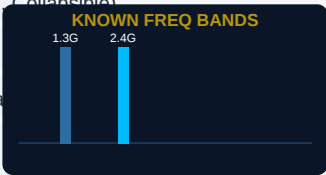
AeroVironment Inc. · USA · 2021

Military / Loitering Munition — Publicly Documented Anti-Armor System

SEVERE



Airframe:	Fixed-Wing (Tube-Launched, Collapsible)
Weight:	15 kg munition (published)
Max Speed:	Publicly documented terminal velocity
Endurance:	~40 min (published)
Range:	Publicly documented range



Indicative Risk Index 98/100

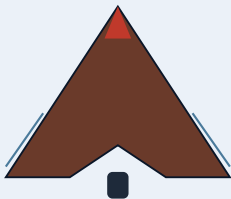
DOCUMENTED THREAT PATTERN: Military use only. Documented publicly in US DoD press releases and Congressional testimony. Publicly documented US military loitering munition manufactured by AeroVironment Inc. Information sourced exclusively from US Department of Defense public press releases, Congressional testimony, and manufacturer public disclosures. Not commercially available. Exclusively for authorized US military and allied government use per publicly documented export control and arms transfer frameworks. All

Shahed-136 (Publicly Documented)

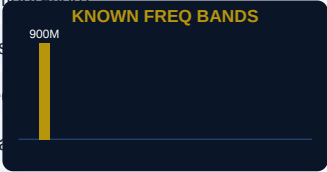
Shahed Aviation Industries / HESA · Iran · 2021

Military / OWA Munition — Publicly Documented State Military Platform

CRITICAL



Airframe:	Fixed-Wing (Delta Wing Configuration)
Weight:	~200 kg (published estimates)
Max Speed:	~185 km/h (publicly estimated)
Endurance:	6–10 hours (published estimates)
Range:	Publicly estimated long-range capability



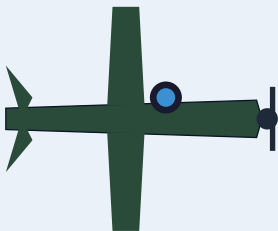
DOCUMENTED THREAT PATTERN: Publicly documented: mass deployment in internationally reported conflict zones, 2022-20
Publicly documented Iranian-manufactured OWA munition, extensively covered in international media, UN Security Council reports, government declassified intelligence releases, and peer-reviewed conflict documentation. Pre-programmed GNSS navigation documented publicly. Acoustic signature (piston engine) widely documented in open-source conflict reporting. All data sourced from public information

MQ-9B SkyGuardian

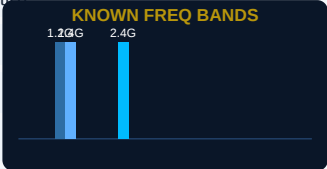
General Atomics Aeronautical · USA · 2018

Military MALE — Publicly Documented Long-Endurance ISR / Strike Platform

CRITICAL



Airframe:	Fixed-Wing (High Aspect Ratio)
Weight:	5,670 kg MTOW (published)
Max Speed:	~408 km/h (published)
Endurance:	40+ hours (published)
Range:	Global via satcom (publicly documented)



DOCUMENTED THREAT PATTERN: Military/government use only. Publicly documented acquisition by multiple allied nations
Publicly documented US MALE UAV manufactured by General Atomics. Information sourced from public US DoD announcements, Congressional records, and NATO STANAG 4671 public certification documentation. Acquired by UK (Protector RG Mk1), Australia, Italy, Belgium, Netherlands, and India per publicly available government procurement announcements. All trademarks are property of General

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FPV, Racing & Swarm Drone Intelligence

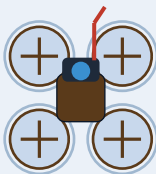
Publicly Documented Tactical Platforms — Conflict-Documented Capabilities

All platform descriptions are based on publicly available information only. Documented threat patterns are included for authorized counter-UAS awareness purposes only. Indicative risk indices are research assessments, not certified threat ratings. Frequency band information is general and based on publicly documented ISM and regulatory bands.

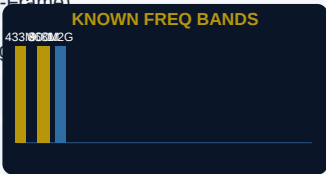
Tactical FPV — Conflict-Documented Pattern Various / Open-Source Hardware · Global · 2022

FPV / Tactical — Conflict-Documented Open-Source Build

HIGH



Airframe:	Quadcopter (Carbon Fiber X-Frame)
Weight:	250–800 g (documented range)
Max Speed:	~100–160 km/h
Endurance:	6–14 min
Range:	2–10 km depending on control system

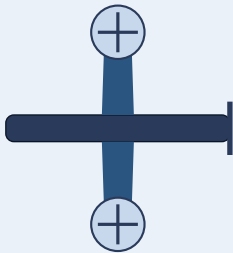


DOCUMENTED THREAT PATTERN: Publicly documented: direct kinetic use documented in multiple international conflict zones. Open-source hardware FPV platform constructed from commodity components. Extensively documented in peer-reviewed conflict studies, UN agency reports, and international media covering the 2022-2025 conflict period. Operates across 433/868/900 MHz and 1.2 GHz bands using publicly documented open-source control systems. Presents counter-UAS challenges due to commodity construction and variable RF

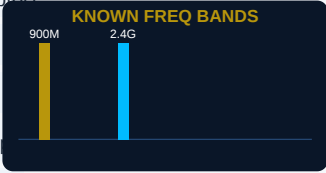
Anduril Roadrunner-M Anduril Industries · USA · 2024

Military / Counter-UAS Interceptor — Publicly Announced Platform

HIGH



Airframe:	VTOL Jet (Reusable Interceptor)
Weight:	~120 kg (publicly estimated)
Max Speed:	>500 km/h
Endurance:	Multi-hour loiter (per public spec)
Range:	Classified



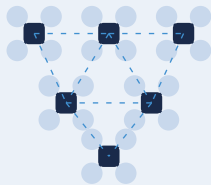
DOCUMENTED THREAT PATTERN: Authorized military/government use only. Publicly announced counter-UAS application. Publicly announced autonomous VTOL interceptor by Anduril Industries. Information sourced from Anduril public press releases and product announcements. Designed and publicly marketed for authorized counter-UAS interception missions. Not commercially available. All trademarks are property of Anduril Industries.

Shield AI HIVE — Publicly Announced

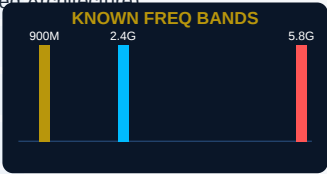
Shield AI · USA · 2023

Military / Swarm / Autonomous AI — Publicly Announced Concept

CRITICAL



Airframe:	Multi-Rotor Swarm (Distributed Architecture)
Weight:	1–5 kg per node (estimated)
Max Speed:	60–80 km/h (estimated)
Endurance:	20–45 min per node
Range:	Mesh network architecture



DOCUMENTED THREAT PATTERN: Military/government use only. Publicly announced autonomous swarm capability.

Publicly announced autonomous swarm platform by Shield AI. Information sourced exclusively from Shield AI public announcements, press releases, and publicly available defense industry reporting. Counter-UAS awareness: swarm architectures present distinct detection challenges per published academic and defense literature. All trademarks are property of Shield AI. Not commercially available.

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RF Signature Intelligence Matrix

General Frequency Profiles for Counter-UAS Awareness — Public Information Only

RF INFORMATION DISCLAIMER

The frequency band information in this section is based exclusively on publicly available regulatory band plans (ISED, FCC, ETSI), manufacturer published specifications, and open academic literature. No proprietary protocol specifications, encryption keys, firmware details, or non-public technical information are included. This information is provided for general counter-UAS awareness only. Any use of RF monitoring equipment must comply with ISED regulations, the Radiocommunication Act (Canada), the Communications Act (USA), and all applicable national telecommunications laws. Operation of spectrum monitoring equipment may require regulatory authorization.

PUBLICLY DOCUMENTED RF BAND DEPLOYMENT REFERENCE

Frequency Band	General F requency	Documented Purpose	Public Protocols	Known Platforms	Detection Approach	Regulatory Note
UHF Long-Range	433 / 868 MHz	Long-range control telemetry (ISM)	ExpressLRS, Crossfire (publicly documented)	Custom FPV, tactical platforms (public docs)	Passive ISM band monitoring	ISED/FCC ISM band; no license to receive
UHF/L-Band ISM	900 / 915 MHz	Industrial ISM control link	SiK Telemetry, MavLink (open-source)	Open-source autopilot platforms	Passive monitoring (ISM band)	ISM band; receive-only permitted
L-Band Analog	1,200–1,3 00 MHz	Long-range video (analog, public)	Analog FM video (public standard)	FPV platforms (publicly documented)	Passive receive; content accessible	Regulated in Canada; consult ISED
Military/Encry pted	Varies / Military	Military command and control	Encrypted military data links	Military platforms (publicly disclosed)	Requires authorized EW capability	STRICTLY REGULATED; No civilian monitoring
S-Band ISM	2,400–2,4 84 MHz	Consumer control & video (ISM)	2.4 GHz Wi-Fi, ISM band protocols	Consumer/enterpri se platforms (per mfr specs)	Passive ISM band monitoring	ISM band; receive-only generally permitted
C-Band / 5 GHz	5,150–5,8 50 MHz	High-band video & control (ISM/U-NII)	5 GHz Wi-Fi, ISM U-NII bands	Modern consumer/ enterprise platforms	Directional passive monitoring	U-NII regulations apply; consult ISED/FCC
Cellular LTE/5G	700–3,700 MHz (carri er-depend ent)	BVLOS operations via cellular network	LTE / 5G NR standard protocols	Platforms with cellular modem (published specs)	UTM/carrier coordination	Licensed spectrum; regulated access only
GNSS Navigation	GPS 1,575 MHz GLO 1,602 MHz BDS 1,561 MHz	Navigation and positioning	GNSS standards (public ITU)	All GPS-enabled platforms	Passive GNSS receive monitoring	Receive-only; transmit in GNSS bands regulated

DJI PROTOCOL EVOLUTION — PUBLIC INFORMATION REFERENCE

The following table references publicly documented protocol generations based on DJI's publicly available product documentation and published academic research only. DJI, OcuSync, and O-series are trademarks of DJI. No proprietary protocol specifications or non-public technical details are included. All product names are property of their respective owners.

Protocol Generation	Year	Published Frequency Bands	Documented Video	Published Range	Documented Encryption	Public Detection Reference
OcuSync 1.0	2016	2.4 / 5.8 GHz ISM	1080p/720p (published)	~7 km (published)	Per public documentation	Published academic papers
OcuSync 2.0	2018	2.4 / 5.8 GHz ISM	1080p (published)	~10 km (published)	Per public documentation	Published academic papers
OcuSync 3.0 / O3	2020	2.4 / 5.8 GHz ISM	1080p/50fps (published)	~15 km (published)	AES-256 (per public docs)	Academic/regulatory literature
O3 Enterprise	2022	2.4 / 5.8 GHz ISM	1080p HDR (published)	~20 km (published)	Enterprise AES (public)	Regulatory/academic
O4 / O4 HD Sync	2023	2.4/5.2/5.8 GHz ISM	4K/60fps (published)	~20 km (published)	AES-256 (per public docs)	Remote ID broadcast (public)
Cellular DJI Link	Add-on	4G/LTE cellular	1080p via LTE	Unlimited (network)	LTE encryption (standard)	UTM/cellular frameworks

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Counter-UAS Sector Threat Profiles

Publicly Documented Incident Analysis — Canadian & Global Context

SECTOR INTELLIGENCE DISCLAIMER

The following sector threat profiles are based exclusively on publicly available incident reports, government press releases, publicly available Transport Canada CADORS data, publicly available FAA sighting databases, publicly disclosed government investment announcements, and peer-reviewed security research. No classified intelligence is included. Statistics cited represent publicly available figures at time of research. Independent verification of all statistics is recommended prior to reliance for any operational, procurement, or policy purpose.

AIRPORTS & AVIATION

DOCUMENTED THREAT LEVEL:
High

Publicly Documented Platforms	Consumer folding quadcopters dominate publicly reported airport proximity incidents globally. DJI consumer product series referenced in >85% of publicly available incident reports.
Documented Frequency Context	2.4 GHz ISM band dominant in documented consumer UAV incidents. 5.8 GHz ISM band secondary. Remote ID broadcasts (2.4 GHz/BLE) documented in regulatory frameworks.
Documented Operational Pattern	Publicly reported incidents: departure/arrival corridor proximity, 100–400 ft AGL range, within 5 nm of runway threshold per publicly available FAA/Transport Canada reports.
Publicly Available Canadian Data	Transport Canada CADORS database (public): 300+ documented annual UAS proximity incidents. YYZ and YVR referenced most frequently in public reports. FAA public data: 1,700+ documented airport proximity UAS incidents 2023-2024.
Counter-UAS Approach Context	Passive ISM band RF monitoring, Remote ID detection frameworks, and optical tracking referenced in publicly available Transport Canada and ISED counter-UAS guidance documents.

CORRECTIONAL INSTITUTIONS

DOCUMENTED THREAT LEVEL:
Critical

Publicly Documented Platforms	Modified consumer platforms and custom builds documented in public court records, CSC public reports, and provincial government press releases. Geofencing firmware modification documented in open-source security literature.
Documented Frequency Context	433 MHz, 868 MHz, and 1.2 GHz analog bands referenced in publicly available correctional security publications. Consumer geofencing documented as inadequate perimeter security control per public government reports.
Documented Operational Pattern	Drop-pass operations over perimeter documented in public court proceedings and correctional service press releases. Contraband payload delivery documented in public criminal prosecution records.
Publicly Available Canadian Data	Quebec Ministry of Public Security public announcement (2025): CAD \$38.5 million commitment to drone countermeasures. Public government statements: 1,175 documented sightings at Quebec provincial facilities 2024-25 vs 695 in 2021-22 — publicly reported 69% increase. Federal pilot programs publicly announced.
Counter-UAS Approach Context	Multi-band passive RF monitoring across ISM bands and perimeter-deployed detection nodes referenced in publicly available correctional security guidance. Edge-autonomous processing discussed in public literature for off-grid deployment.

CRITICAL INFRASTRUCTURE

DOCUMENTED THREAT LEVEL:
High

Publicly Documented Platforms	Enterprise-class UAV platforms documented in publicly reported critical infrastructure proximity incidents. Vision-based autonomous navigation noted as detection challenge in published academic counter-UAS literature.
Documented Frequency Context	2.4/5.8 GHz enterprise ISM band protocols documented. Autonomous navigation capability (potential for reduced RF emission) noted as counter-UAS challenge in published academic research.
Documented Operational Pattern	Loitering near substations, pipeline installations, and transmission infrastructure documented in publicly available security incident reports. Stand-off reconnaissance pattern documented in open-source threat assessments.
Publicly Available Canadian Data	Public statements from major Canadian energy operators and public security disclosures reference increasing drone proximity incidents. Double-digit annual growth referenced in publicly available industry security reports.
Counter-UAS Approach Context	Layered passive RF monitoring combined with optical detection discussed in publicly available counter-UAS frameworks for addressing platforms with low RF emission. Remote node deployment referenced for linear asset protection.

NATIONAL DEFENCE & GOVERNMENT

DOCUMENTED THREAT LEVEL:
Critical

Publicly Documented Platforms	Military MALE platforms (publicly disclosed deployments), commercial enterprise platforms in proxy ISR roles documented in public conflict and security reporting.
Documented Frequency Context	Military encrypted data links (publicly known as operating in L/S bands) and commercial ISM band platforms documented in publicly available defence literature and conflict reporting.
Documented Operational Pattern	Base perimeter proximity incidents, government zone airspace probing, and convoy area UAV activity documented in publicly available DND reports and parliamentary committee testimony.
Publicly Available Canadian Data	DND public communications reference growing UAV threat awareness at identified bases. Canada's publicly announced border security investment package (December 2024) and publicly confirmed NATO Latvia deployment counter-drone component (February 2024).
Counter-UAS Approach Context	Multi-band passive RF monitoring, acoustic detection arrays, and edge-autonomous detection discussed in publicly available Canadian defence research publications and NATO counter-UAS standardization documents.

10

Global Market Analysis & Country Rankings

Third-Party Research Reference — Forward-Looking Statements Apply

MARKET DATA DISCLAIMER

All market size estimates, CAGR projections, market share figures, and country rankings in this section are derived from publicly available third-party research reports and are reproduced for general reference only. DefendX Technologies Inc. has not independently verified these figures. All projections are forward-looking statements subject to material uncertainty. Market data is believed accurate as of publication date but is subject to change. Do not rely on this data for investment decisions without independent verification from primary sources. See Forward-Looking Statements disclaimer.

COUNTER-UAS MARKET SIZE ESTIMATES — THIRD-PARTY RESEARCH REFERENCE



* All figures are third-party research estimates. Forward-looking statements. Not guarantees. Verify independently.

COUNTRY RANKINGS — UAV MANUFACTURING CAPABILITY (ESTIMATED, OPEN-SOURCE BASIS)

Rank	Country	Est. Manuf acturers	Est. Platforms	Documented Core Competency	Public Export Status
1	China	~120+	~1,200+	Mass consumer/enterprise manufacturing; MALE military; agricultural	Dominant global export — publicly documented
2	United States	~80+	~800+	AI autonomy; NDAA-compliant platforms; HALE military; SIGINT	Allied nation export; ITAR-controlled military platforms
3	—	~25+	~150+	Military SIGINT, ELINT, EW, loitering munitions	Global military export — publicly documented
4	Turkey	~15+	~80+	Combat MALE ISR/strike; export-focused	Active export — publicly documented 30+ nations
5	France	~20+	~100+	Commercial survey; enterprise; MALE (publicly known programs)	EU + NATO documented export
6	Germany	~18+	~85+	Survey; industrial inspection; Urban Air Mobility	EU industrial export focus
7	Ukraine	~30+	~200+	Tactical FPV; battlefield ISR — conflict-documented	Domestic defense; emerging documented export capability
8	Iran	~10+	~60+	Low-cost OWA loitering munitions — publicly documented conflicts	State actor proliferation documented in UN/intl reports
9	South Korea	~15+	~70+	Industrial UAV; military ISR; cargo delivery	Asia-Pacific + allied nation export
10	United Kingdom	~15+	~60+	Military ISR; enterprise; novel VTOL programs	NATO + Commonwealth documented export
11	Australia	~10+	~45+	Counter-UAS technology (DroneShield); commercial survey; naval UAS	Five Eyes export — counter-UAS leader

Rank	Country	Est. Manuf acturers	Est. Platforms	Documented Core Competency	Public Export Status
12	Canada	~8+	~30+	Survey; forestry; agriculture; emerging defense technology	Allied domestic market; emerging defense export capability

11

Master Cross-Reference Table

Publicly Documented Platforms — Consolidated Reference Summary

All entries based on publicly available open-source information only. Risk scores are indicative research assessments only — not certified threat ratings. All trademarks are property of their respective owners. Frequency bands are general ISM/regulatory band references, not proprietary protocol specifications. This table is for authorized counter-UAS awareness research only.

UAV Name	Manufacturer	Country	Class	Airframe	Freq Bands (Public)	Threat Level	Risk Index
DJI Mini 4 Pro	DJI	China	Consumer	Quad	2.4/5.2/5.8 GHz ISM	Medium	65
DJI Avata 2	DJI	China	Consumer FPV	Quad	2.4/5.2/5.8 GHz ISM	Medium	68
DJI Air 3	DJI	China	Prosumer	Quad	2.4/5.8 GHz ISM	Medium	62
DJI Mavic 3 Enterprise	DJI	China	Enterprise	Quad	2.4/5.8 GHz ISM	High	78
DJI Matrice 350 RTK	DJI	China	Enterprise	Quad	2.4/5.8 GHz ISM	High	82
DJI Matrice 30T	DJI	China	Enterprise	Quad	2.4/5.8 GHz ISM	High	76
DJI Agras T50	DJI	China	Agricultural	Hexacopter	2.4/5.8 GHz ISM	Medium	55
DJI Phantom 4 RTK	DJI	China	Survey	Quad	2.4/5.8 GHz ISM	Medium	52
DJI FlyCart 30	DJI	China	Cargo/Delivery	Quad	2.4/5.8 GHz ISM	Medium	58
Autel EVO II Pro V3	Autel Robotics	China/USA	Prosumer	Quad	2.4/5.8 GHz ISM	Medium	60
Autel EVO Max 4T	Autel Robotics	China/USA	Enterprise	Quad	2.4/5.8 GHz ISM	High	75
Autel EVO Nano+	Autel Robotics	China/USA	Consumer	Quad	2.4/5.8 GHz ISM	Low	48
Skydio X10 / X10D	Skydio	USA	Enterprise/Defense	Quad	900 MHz/2.4/5.8 GHz ISM	Critical	91
Skydio R1	Skydio	USA	Consumer/Pro	Quad	2.4/5.8 GHz ISM	Medium	55
Parrot ANAFI USA GOV	Parrot	France	Government	Quad	2.4/5.8 GHz ISM	Medium	55
Parrot ANAFI Ai	Parrot	France	Enterprise	Quad	2.4/5.8 GHz ISM	Medium	52
WingtraOne GEN II	Wingtra/Sony	Switzerland	Survey VTOL	VTOL FW	900 MHz/2.4 GHz ISM	Low	28
Quantum Trinity F90+	Quantum Systems	Germany	Survey VTOL	VTOL FW	2.4/5.8 GHz ISM	Low	30
Freefly Alta X	Freefly Systems	USA	Cinema/Heavy	Octocopter	2.4/5.8 GHz ISM	Medium	45
JOUAV CW-25	JOUAV	China	Industrial ISR	VTOL FW	2.4/5.8 GHz ISM	Medium	58
AeroVironment RQ-20 Puma	AeroVironment	USA	Military ISR	Fixed-Wing	Military bands (public)	Critical	90
AeroVironment Switchblade 300	AeroVironment	USA	Loitering Munition	Fixed-Wing	Military UHF (public)	Severe	94

UAV Name	Manufacturer	Country	Class	Airframe	Freq Bands (Public)	Threat Level	Risk Index
AeroVironment Switchblade 600	AeroVironment	USA	Loitering Munition	Fixed-Wing	Military L/S-Band	Severe	98
Bayraktar TB2	Baykar	Turkey	Military MALE	Fixed-Wing	Military L/S-Band	Critical	95
Bayraktar TB3	Baykar	Turkey	Military MALE	Fixed-Wing	Military L/S-Band	Critical	96
Baykar Akinci	Baykar	Turkey	Military UCAV	Fixed-Wing	Military L/S-Band	Critical	97
Baykar Kizilelma	Baykar	Turkey	Military UCAV Jet	Fixed-Wing	Military L/S-Band	Critical	97
MQ-9B SkyGuardian	General Atomics	USA	Military MALE	Fixed-Wing	Satcom/Military	Critical	99
RQ-4 Global Hawk	Northrop Grumman	USA	Military HALE	Fixed-Wing	Satcom/Military	Critical	98
MQ-8C Fire Scout	Northrop Grumman	USA	Naval VTOL ISR	Helicopter	Military L/S-Band	Critical	92
ScanEagle	Boeing Insitu	USA	Military ISR	Fixed-Wing	Military L/S-Band	Critical	88
RQ-21 Blackjack	Boeing Insitu	USA	Military ISR	Fixed-Wing	Military L/S-Band	Critical	89
Altius-600	Textron Systems	USA	Tactical VTOL	VTOL FW	Military L/S-Band	Critical	90
Ghost 4	Anduril	USA	Defense Tactical	Quad	2.4/5.8 GHz ISM	High	80
Roadrunner-M	Anduril	USA	Interceptor VTOL	VTOL Jet	900 MHz/2.4 GHz ISM	High	78
Nova 2	Shield AI	USA	Military AI	Quad	2.4/5.8 GHz ISM	High	82
V-BAT	Shield AI	USA	Military VTOL	VTOL FW	Military L/S-Band	High	85
HIVE Swarm	Shield AI	USA	Military Swarm	Multi-Quad	900 MHz/2.4/5.8 GHz	Critical	93
Shahed-136 (Documented)	Shahed/HESA	Iran	OWA Munition	Fixed-Wing	Passive/GNSS	Critical	96
Shahed-131 (Documented)	Shahed/HESA	Iran	OWA Munition	Fixed-Wing	Passive/GNSS	Critical	92
Hermes 450	Elbit Systems	—	Military MALE	Fixed-Wing	Military L/S-Band	Critical	91
Hermes 900	Elbit Systems	—	Military MALE	Fixed-Wing	Military L/S-Band	Critical	93
SkyStriker	Elbit Systems	—	Loitering Munition	Fixed-Wing	EO/GPS (public)	Severe	96
Heron TP (Eitan)	IAI	—	Military MALE	Fixed-Wing	Military L/S-Band	Critical	93
Harop	IAI	—	Loitering Munition	Fixed-Wing	EO Guidance (public)	Severe	97
Harpy	IAI	—	Anti-Radiation	Fixed-Wing	Passive RF (public)	Severe	96

UAV Name	Manufacturer	Country	Class	Airframe	Freq Bands (Public)	Threat Level	Risk Index
CH-4 Rainbow	CASC	China	Military MALE	Fixed-Wing	Military L/S-Band	Critical	94
CH-5 Rainbow	CASC	China	Military MALE	Fixed-Wing	Military L/S-Band	Critical	95
CAIG Wing Loong II	Chengdu Aircraft	China	Military MALE	Fixed-Wing	Military L/S-Band	Critical	94
Warmate	WB Electronics	Poland	Loitering Munition	Fixed-Wing	Military L-Band	Severe	93
FlyEye	WB Electronics	Poland	Military ISR	Fixed-Wing	Military L-Band	High	79
CAMCOPTER S-100	Schiebel	Austria	Naval VTOL	Helicopter	Military L/S-Band	High	80
Skeldar V-150	Saab	Sweden	Naval VTOL	Helicopter	Military L/S-Band	High	79
Tactical FPV (Combat)	Various/Open-Source	Global	Weaponized FPV	Quad	433/900 MHz/1.2 GHz	High	85
EH216-S	EHang	China	UAM	Multirotor	4G/LTE Cellular	Low	25
Joby S4	Joby Aviation	USA	UAM	VTOL FW Jet	4G/5G Cellular	Low	20
Wisk Cora	Wisk Aero	USA	UAM	VTOL	4G/5G Cellular	Low	22
Zip Platform 2	Zipline	USA	Medical Delivery	Fixed-Wing	4G LTE Cellular	Low	22
Wing Delivery	Wing (Alphabet)	USA	Package Delivery	Fixed-Wing	4G LTE Cellular	Low	20
DJI Mavic Mini 3	DJI	China	Consumer	Quad	2.4/5.8 GHz ISM	Low	50

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