



Field-ready

One architecture. Two aircraft. Built for the work.

Vulcan Platform Features

Architecture & Airframe

Tricopter format – maximizes forward flight efficiency, minimizes transport volume

High-speed retractable landing gear – improves cruise performance & delivers 360° sensor FOV in flight

Low EMI emissions / RFI-armored design – operates in crowded and high-RF environments (iron mines, shipyards, dense urban)

Control System

Vision Aerial Ground Control Station – digital, low-latency, long-range drone controller with integrated 2.4GHz/5.8GHz data link and video transmitter; improved ergonomics, display, and battery life

Vision Aerial Flight Deck – field-updatable, subscription free

Drivetrain

High-life, high-voltage drivetrain (8S / 14S) – engineered for long service intervals with lower current draw, less heat, better efficiency

4x motor longevity vs. M2.5 generation

Superior thrust-to-weight across full flight envelope

Fault-tolerant, fully redundant power architecture across all flight-critical systems

Options

Onboard edge computing

Custom branded liveries

Extreme Flight Kit or Extended Flight Kit

Compliance

Blue/Green UAS Program (cert pending)

NDAA compliant

Part 107 Small Unmanned Aircraft

Part 89 Standard Remote ID Unmanned Aircraft

ASTM F3298-19 compliant

Flight Intelligence

Active terrain following

Forward collision avoidance (radar)

Dual-band NEO-F9P L1/L5 RTK-capable GNSS

Integrated tilting FPV camera – nadir mount available for BVLOS operations

Smart Battery System

High specific energy battery chemistry – more flight time per kg

Auto-heating – for cold-weather operations

Self-storage mode – extends battery life between flights

Onboard state-of-charge display

Cycle counting and health management

Payload Interface

Smart dovetail

Compatible with the full Vulcan payload ecosystem – visionaerial.com/products/payloads

Vulcan ships flight-ready – Aircraft · Smart Battery + Charger · Ground Control Station · Custom Pelican Case



Vulcan SX

Medium-lift Compact UAS

Field-ready

Built for the mission.

Vulcan SX Specifications

Performance

Flight time (no payload)	70 min*
Flight time (w/3 kg payload)	~40 min*
Top rated speed	20 m/s (45 mph)
Max wind resistance	14 m/s (32 mph)
Max ascent / descent rate	2.5 m/s (5.5 mph)
Service ceiling	10,000 ft
MTOW	11.0 kg

*Flight times are dependent on many variables including payload weight and environmental characteristics. weight, environmental characteristics.

Power / Drivetrain

Battery architecture	8S high-voltage
Battery capacity	30Ah
Charge time	2 hr

Environment

Operating temperature	15°F – 115°F (-9°C – 46°C)
Max operating humidity	100% RH
Weather Rating	IP54 rated (cleared for flight in rain)

Payload

Max payload capacity	3.0 kg
Payload mounts	Top or Belly
Payload interface	Smart Dovetail

Transport & Logistics

Transport configuration – Custom Pelican case, hand-carry and checked baggage compliant (without batteries per FAA limitations)

Aircraft case – 1200 x 420 x 230 mm (47 x 17 x 9 in)

Packed field carry – Aircraft removable from case for backpack / shoulder carry

Vulcan ships flight-ready – Aircraft · Smart Battery + Charger · Ground Control Station · Custom Pelican Case

Designed, manufactured, assembled, tested, and serviced in the USA.

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