



Vision Aerial



Vision Aerial drones are proudly made in America.



SwitchBlade-Elite Tricopter

When the SwitchBlade-Elite was created, we took an objective look at what makes a great drone. The tricopter design has exceptional flight handling and piloting characteristics as well as superior cruise flight efficiency.

The SwitchBlade-Elite also features a pivoting rear yaw mechanism. This results in the ability to perform well in windy conditions and high-speed flight maneuvering.

Key Features:

Great for windy environments—can withstand 40 kph (25 mph) gusts.

Easy to transport. Folds and stows into a Pelican case.

Under 2 minutes from case to mission to maximize your time in the field.

Perfect for repeated missions with survey and waypoint enabled mission planning software.

Quickly swap payloads in the field with the Payload Connection System.



What's included?

SwitchBlade-Elite

Waterproof Pelican transport case with custom insert

(1) Flight battery

High-capacity AC dual battery charger

Ground controller with internal battery

Mission planning software (no subscription fee)

Video training series

Contact

(406) 333-1795

visionaerial.com



SwitchBlade-Elite 2.3 Tricopter

PERFORMANCE

Max Flight Time*	50 min
Flight Time w/ 0.5kg Payload & 30% Battery Remaining (RTL)	about 30 min
Max Wind Speed Resistance	40 kph (25 mph)
Weather Rating	IP52
Flight Range†	20 km (12.43 mi)
Operational Temp. Range	-10° C to 50° C (14° F to 122° F)
Max Altitude (MSL)	3048 m (10,000 ft)
GPS Accuracy	Within ±2.5 m (8 ft), typically less than ±1 m
GPS Accuracy, RTK corrected†† (Optional)	±0.1 meters (±0.33 feet)

FLIGHT STACK

Flight Controller	ProfiCNC Blue Cube (Pixhawk)
Ground Control Station	Herelink
Firmware	Arducopter
Flight Software	Vision Aerial Flight Deck

SECURITY

Encryption	Encrypted C1, C2 & video link AES 128 bit CTR
Data Link Frequency	2.4 GHz

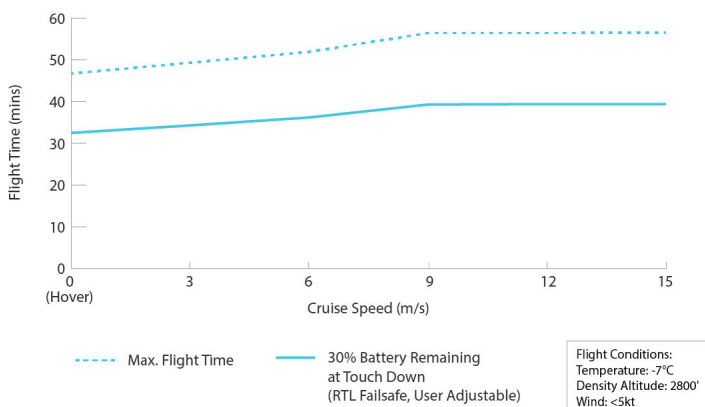
AIRCRAFT

Max Payload	2.0 kg (4.4 lb)
Ground Clearance (to bottom of PCS)	220 mm (8.70 in) with powered landing gear
Ground Clearance (to bottom of RID antenna)	210 mm (8.27 in) with powered landing gear
Flight Dimensions	865 mm (34 in) diameter
Storage Dimensions	717 x 200 x 172 mm (28 x 8 x 7 in)
Case Dimensions	1200 x 420 x 230 mm (47 x 17 x 9 in)
Base Weight (No Battery)	3.3 kg (6.4 lb)
Weight with Battery	5.3 kg (10.6 lbs)

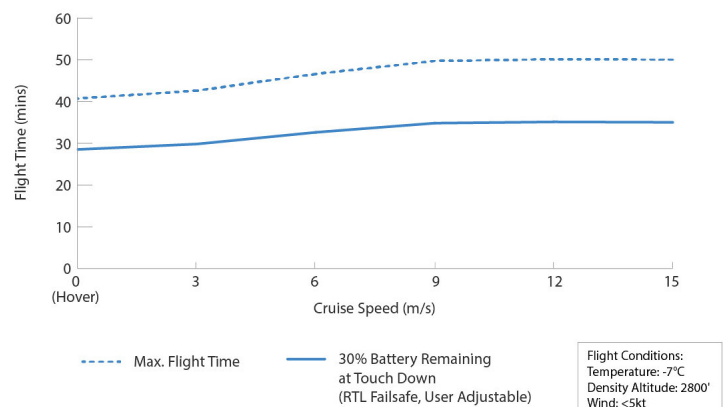
POWER

Battery	22,000 mAh 6S Solid State Lithium-Ion battery
Dual AC Battery Charger	Charges 2 batteries in 1 hour
Battery Lifespan	300 cycles
Connectors	XT90-S Anti-Spark
Nominal Voltage	6S 22.2 V
Rotors	46.2 x 149.8 cm (18.2 x 5.9 in) carbon fiber, folding, precision balanced

SwitchBlade-Elite 2.3 | Flight Time v Cruise Speed
0 kg payload



SwitchBlade-Elite 2.3 | Flight Time v Cruise Speed
0.5 kg payload (α6400 or RX1Rii nadir-mounted)



Contact
(406) 333-1795
visionaerial.com

* Flight time is impacted by variables such as payload mass, payload power draw, density altitude, wind, and maneuvering aggression.

** Vehicle is delivered with a lower speed. Max speed can be adjusted upon request.

† Environmental factors may impact flight range.

† † With known ground control point and adequate time for base station to collect satellite data.

*2020 NDAA compliant with 2022 NDAA option coming soon.