



SwitchBlade-Elite + OGI Scout

High Performance

Advanced Gas Detection

Real-time Event Capture



- **Easily identify leaks in real-time using the Gas Enhancement Mode (GEM)** for colorization
- **In-field documentation and reporting** using MarkPoint software to easily and in real-time capture events and document context
- **2x resolution of similar cameras** gives you clearer images, even from a distance
- **Get longer life** out of the cooled detector



**AMERICAN-MADE
DRONES**

When you need the best Optical Gas Imaging (OGI) for sensitive inspections or surveys, the Vision Aerial SwitchBlade-Elite equipped with OGI Scout is a perfect match. The OGI Scout delivers a HOT (high operating temperature) mid-wave infrared (MWIR) camera core, which is the latest in detector, cooler and lens design for detecting and visualizing hydrocarbon gas leaks including methane, propane, and butane. Add in real-time event capture and documentation with Vision Aerial's MarkPoint software, and you can optimize workflows from the field as you protect the environment and your people. And you get the same aircraft features from Vision Aerial that you've come to expect – payload versatility, advanced features of the Flight Deck, and exceptional customer service.

Contact
(406) 333-1795
www.VisionAerial.com

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

Visit our product
webpage



Specifications

Aircraft	
Brand	SwitchBlade-Elite 2.3 Tricopter
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 lb)

Power	
Battery	22,000 mAh 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 fibr, folding, precision balanced

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

Payload Specs	
Weight	1.2kg
Operating Temp	0° C -> +50° C

Gimbal	
Brand	Vision Aerial
Angular Vibration	±0.02°
Rotational Speed	100°/s

OGI Sensor	
Brand	Sierra-Olympia Technologies
Model	Ventus OGI
Detector Type	HOT MWIR
Lens	25mm
Resolution	640 x 512
Field of View	21.7°
Pixel Pitch	15 µm
Frame Rate	30 Hz
NETD	<50mK
Digital Zoom	Up to 8x
F/#	1.5

Performance	
Flight Time *	50 min max ~30 min w/ 0.5 kg payload & 30% Battering Remaining (RTL)
Max Wind Speed	40 kph (25 mph)
Weather Rating	IP52
Flight Range	20 km (12.43 mi)
Operating Temp	-10° C -> 50° C
Max Altitude (MSL)	3,048 m (10,000 ft)
GPS Accuracy	within ±2 m (8 ft), typically <±1 m
GPS Accuracy, RTK corrected (optional) [§]	±0.1 m (0.33 ft)

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

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