

Sky Arrow UAV System



TAIWAN
EXCELLENCE
2018

The Aerial Photogrammetric UAV for Disaster Relief

The Sky Arrow series UAS is a professional fixed-wing multi-role UAS equipped with high accuracy flight control computer (FCC) and tactical AHRS, enabling fully auto-piloted operation beyond the visual line of sight (BVLOS). The Sky Arrow is made of lightweight CFRP material airframe with efficient gasoline engines, offering high performance in maneuverability, long endurance, high payload and short take-off and landing. In addition, the Sky Arrow series adopts modular design to serve diverse applications, including disaster response, environmental monitoring, land management, homeland security, resource exploration, etc. as a crucial intelligence-gathering platform for decision-making.



Specifications

Wing Span	3.0 m
Length	2.4 m
Maximum Takeoff Weight	30 kg
Cruise Speed	105 km/h
Maximum Speed	145 km/h
Maximum Service Ceiling (ASL)	4000 m
Endurance	3 hrs (max.)
Max Payload	6 kg
Maximum Range	300 km
Engine	54.9 c.c. DLE-60 two stroke air-cooled gasoline engine
Take Off/Landing Run(with braking)	30/80 m

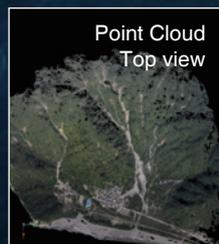
Design Features

Propulsion Design	Rear-engine/Pusher
Wing Design	Rectangle wing design
Tail Design	Double vertical tail
Landing Gear Design	Forward tricycle
Aircraft Construction	Detachable wing
Structure Design	CFRP sandwich structure

Land Management



3D Digital Terrian



Payload Sensors



Medium Format
Aerial Camera



EO/IR Dual Sensor
Zoom Camera



High Resolution Thermal
Mapping Imager



Multispectral
Camera

- Long Endurance** — Up to 3 hours to effectively extend operation range.
- Long Range** — Maximum range can reach up to 300 km for remote deployment.
- Strong Wind-Resistance** — Wind resistance can reach up to Beaufort Scale 6 (34 knots) in arduous environment.
- Autonomous** — Equipped with auto-pilot FCC for beyond the visual line of sight (BVLOS) operation.
- All Composites Airframe** — The aircraft is made of CFRP with integral structure for large instruments.
- Diverse Payload** — Digital camera, multi-spectral camera, magnetometer and other sensing devices.
- High Altitude** — Its flight height can reach up to 4000 meters and meet the mission requirement for high altitude.

A highly flexibility UAV can be customized modified.

Official Website



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<https://www.geosat.com.tw>



Tainan Headquarter
12F, No.253, Sec.3, Dongmen Rd.,
East Dist., Tainan City 70172, Taiwan
TEL : 886-6-335-1068

Taichung Branch
3F, No.43, Keya Rd.,
Daya Dist., Taichung City 42881, Taiwan
TEL : 886-4-3609-5588

Taipei Branch
10F, No.306, Sec.4, Xinyi Rd.,
Da'an Dist., Taipei City 10679, Taiwan
TEL : 886-2-2708-4438