

Sky Arrow UAV System



TAIWAN
EXCELLENCE
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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 take off weight	24 kg
Cruise speed	105 km/h
Maximum speed	145 km/h
Maximum altitude	4000 m
Endurance	4 hrs
Max payload	6 kg
Maximum range	350 km
Engine	GT-60 gasoline engine
Take off/landing run	30/80 m

Basic specification design

Aircraft configuration selection	After propeller pusher
Wing design	Rectangle wing design
Tail design	Double vertical tail
Landing Gear design	Forward Landing Gear
Engine design (module design)	Two piston gasoline engine
Aircraft Min Body	Wing/fuselage to separate design
Aircraft configuration design	Sandwich configuration

Land Management



3D Digital Terrain



Payload sensors



High-resolution
Digital Camera



Multi Spectrometer



Full-HD Camera



PTZ Camera

- Long endurance** — Up to 8 hours to effectively extend operation range.
- Long range** — Maximum range can reach up to 350 KM for remote deployment.
- Strong wind-resistance** — Wind resistance can reach up to Beaufort Scale 8 (34 knots) in arduous environment.
- High intelligence** — 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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Tainan Headquarter
12F, No.253, Sec.3, Dongmen Rd.,
Tainan City 701, Taiwan
TEL : 886-6-335-1068

Taipei Branch
10F, No.306, Sec.4, Xinyi Rd., Da-an Dist.,
Taipei City 106, Taiwan
TEL : 886-2-2708-4438

Taichung Branch
3F, No.43, Keya Rd., Daya Dist.,
Taichung City 428, Taiwan
TEL : 886-4-3609-5588

Sky Arrow

天箭級無人機系統

Sky Arrow 系列 UAS，搭載高精度飛控電腦及戰術級姿態儀，可進行視距外全自動導航飛行。採先進複材製造，具備高機動性、長滯空時間、高酬載重量、及短場起降等多項卓越性能。

Sky Arrow 系列採模組化設計，已廣泛運用於各類的尖端應用：包含災害應變、環境監測、土地管理、國土安全、資源探勘、環境調查等面向，為決策輔助之關鍵性智慧平台。

智慧化無人飛行系統 UAS 最佳解決方案



規格 Sky Arrow 55

翼展	3.0m
長度	2.4m
最大重量	24kg
巡航速度	105km/h
最大速度	145km/h
最大飛行高度	4000m
滯空時間	4小時
酬載重量	6kg
最大航程	350km
推進系統	GT-60汽油引擎
起飛/降落距離	30/80m

設計配置

飛機構型	後推式引擎螺旋槳
主翼配置	3/4高翼設計/長方形機翼設計
尾部配置	雙垂直尾翼
起落架設計	前三點式
引擎配置(模組化設計)	後置 二行程單引擎 氣冷式設計
飛機主體	機翼 主體機身可拆解
飛機結構設計	一體成型複合材料結構

影像酬載



高解析數位相機



多光譜儀



Full-HD高畫質攝影機



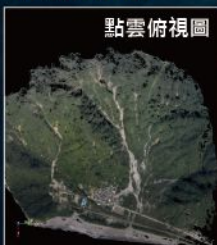
PTZ攝影機

- **長滯空** 滯空時間可達4小時，有效延伸監控範圍
- **高航程** 航程最高可達350公里，可深入部署遠距任務
- **高抗風** 抗風能力達8級風強度(34 knots)，適應艱鉅環境
- **高智慧** 具備視距外自主飛控能力，先進飛行控制系統
- **高精度** 選配搭載高精度戰術級定位定向系統(POS)
- **全複材** 全機複合材料，一體式結構，可搭載大型儀器
- **高酬載** 搭載數位相機、攝影機、多光譜儀、磁力儀等設備
- 最大航高可達到4000公尺，可滿足高海拔任務需求
- 可客製化改裝無人飛行載具，極具彈性

土地管理



3D數位地形



官方網站



臉書專頁



DM下載



經緯航太科技股份有限公司

台南 / 台南市東區東門路三段253號12樓 TEL: (06)335-1068
 台北 / 台北市大安區信義路四段306號10樓 TEL: (02)2708-4438
 台中 / 台中市大雅區科雅路43號3樓 TEL: (04)3609-5588