



## CORVO ALTO

The Corvo Alto family of next generation Small Uncrewed Aerial Systems (SUAS) are affordable, robust, 100% Australian solutions that are capable of meeting a wide range of operational scenarios, including:

- ISR operations in day and night
- Ab-initio drone training and drone literacy programs
- Mapping and photogrammetry operations
- Swarm operations
- Weaponised applications



MISSION  
CAPABLE



TRUSTED &  
SECURE



ALL WEATHER  
CAPABLE



AUSTRALIAN  
OWNED &  
OPERATED

## KEY FEATURES

### SOVEREIGN

Alto is 100% designed and manufactured in Australia by a wholly Australian, veteran-owned business proven to rapidly deliver innovative end-to-end UAS capabilities to meet current and evolving customer requirements.

### ALL WEATHER CAPABLE

Alto has been designed to operate in challenging environmental conditions, in high winds, in wet weather, in dust, in heat and in cold.

### MISSION CAPABLE

Alto is enabled to leverage the latest operational concepts including the use of AI, swarming operations, one-to-many operation, and the integration of new and novel payload types.

### ROBUST

Alto air vehicles and ground stations have been designed to be robust and survivable, specifically suited to demanding Military and Law Enforcement operations.

### TRUSTED & SECURE

Alto air vehicles have been designed to be trusted and secure. The Alto Lite and AltoX both utilise an advanced, military grade encrypted, IP mesh datalink. SYPAQ develops all aspects of the software (utilising an open source core) and most of the avionics in-house, resulting in a trusted and secure solution, now and into the future.

## SPECIFICATIONS

### CORVO ALTO X

### CORVO ALTO LITE

### CORVO ALTO FPV

MTOW:	1400g	ENDURANCE:	35mins
AIRSPEED:	80km/hr	RANGE:	5km
WIND TOLERANCE:	65km/hr	(18 m/s)	

MTOW:	1300g	ENDURANCE:	35mins
AIRSPEED:	80km/hr	RANGE:	5km
WIND TOLERANCE:	65km/hr	(18 m/s)	

MTOW:	1500g	ENDURANCE:	10-20mins
AIRSPEED:	100+ km/hr (28m/s)	RANGE:	5km
WIND TOLERANCE:	80+ km/hr	(22m/s)	

Corvo Guarda 70-DN			
PAYLOAD:	EO Sensor: Sony 4K CMOS sensor 12.3MP resolution 6.3X zoom from 60deg to 6.3deg HFOV		
	LWIR Sensor: FLIR Boson 640 Long Wave Infra-Red (LWIR) Sensor 640 x 512px resolution 30Hz Frame Rate		
DATALINK:	CODAN ultra-light, ultra-compact software defined IP mesh radio		
GROUND CONTROL STATION:	Corvo Control software operating on a Mil Spec, Tactical Android End User Device (EUD)  Corvo Single Hand Controller		

Corvo Alto Lite EO Sensor			
PAYLOAD:	EO (daylight) 3 axis stabilised sensor, 1/1.7in Sony 4K CMOS sensor 81deg HFOV with 6x digital zoom,		
DATALINK:	CODAN ultra-light, ultra-compact software defined IP mesh radio		
GROUND CONTROL STATION:	Corvo Control software operating on a COTS Android End User Device (EUD)  Corvo Single Hand Controller		

Corvo Alto FPV Sensor			
PAYLOAD:	1080P HD EO Sensor Single axis (tilt) stabilised 1080P, 120FPS 160deg FOV (Fixed Lens) 1/1.8 inch Sony Starvis II sensor (low light optimised)		
	External Stores: Designed specifically to carry external stores, the load carrying capacity is currently under evaluation		
DATALINK:	Digital FPV Low latency (22ms) FMV link		
GROUND CONTROL STATION:	FPV remote (mode 1 or 2) FPV Digital HD Goggles		