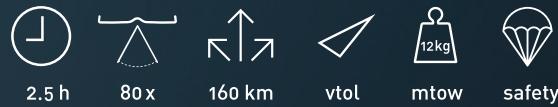


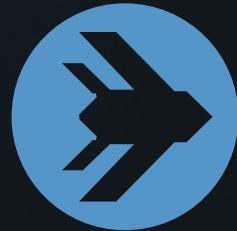
UNMANNED AIRCRAFT SYSTEMS

# SQA

MULTIROLE eVTOL  
DEVELOPED BY C-ASTRAL X-WORKS



NSN - 1550-42-000-3356



C-ASTRAL  
AEROSPACE

Cursor On Target CoT enabled / Target geo-tagging

Large area surveillance

Remote sensing / aerophotogrammetry

Pipeline monitoring / Infrastructure control / Wildfire management



MULTIROLE eVTOL

2.5 h    80 x    160 km    vtol    mtow    safety

BEST IN CLASS STABILIZED PAYLOAD  
80x zoom EO / HD thermal sensor



## SQA eVTOL SPECIFICATIONS

SQA eVTOL multirole system is an evolutionary and compact small unmanned system developed by C-ASTRAL advanced X-WORKS laboratory enabling the complete spectrum of ISR operations over medium distances of up to 40 km from the ground control station. The SQA eVTOL can be equipped with several different sensors and command and control datalinks at frequencies from 1GHz up to 5GHz in MANET or MIMO configurations.

The MK2 basic SQA system can be configured for first responders, search and rescue, firefighting, as well as complex military level ISR and fire control missions with an array of stabilized sensor options. Additionally, the SQA eVTOL can serve as a very capable remote sensing platform for aerophotogrammetry as well as scientific atmospheric sensing including gas leak detection missions.

\* Flight endurance measured at ICAO standard atmosphere conditions (15 °C / 1013.25 hPa / winds calm), depends on UAS configuration / system weight.



### FLIGHT CHARACTERISTICS

MTOW	Up to 12 kg (depending on a payload)
Cruise speed	18 m/s - 30 m/s
Flight endurance	Up to 2.5 h @ 10 kg MTOW
Max. GND wind speed	8 m/s
Max. FLT wind speed	12 m/s
Max. flight altitude	Up to 4000 m ASL
Take-Off / Landing	VTOL
Rescue / Emergency	Parachute
Pre-flight setup time	Less than 5 min
Operator req.	One or two operators
VTOL landing area	3 x 3 m
Operating temperature	-20 °C to +55 °C



### SENSORS / PAYLOAD

Gimbal - option 1	80x EO - LWIR 8x
Gimbal - option 2	40x EO - LWIR 2x
Mapping sensor	Up to 1.0 kg
Custom payload	Up to 1.3 kg

### AIRCRAFT TYPE & AIRFRAME

Fixed wing	VTOL Blended Wing Body
VTOL configuration	Blended low drag detachable boom
Structure	Low radar signature materials
Wingspan	2.9 m
Length central module	1.2 m
Other	Modular assembly



### COMMUNICATIONS

Data / Videolink	IP, Encrypted
Comm Range	Up to 40km LOS

### GCS

Gimbal Control	Flight stick control
Manual Flight	Optional flight stick



### TRANSPORTATION CASE

Features	Watertight / crushproof and dustproof
Dimensions	45 x 25 x 17 in (114 x 64 x 42 cm)
Standards	1780 DEF STAN / MIL-STD 810G Certified

### STANDARDS

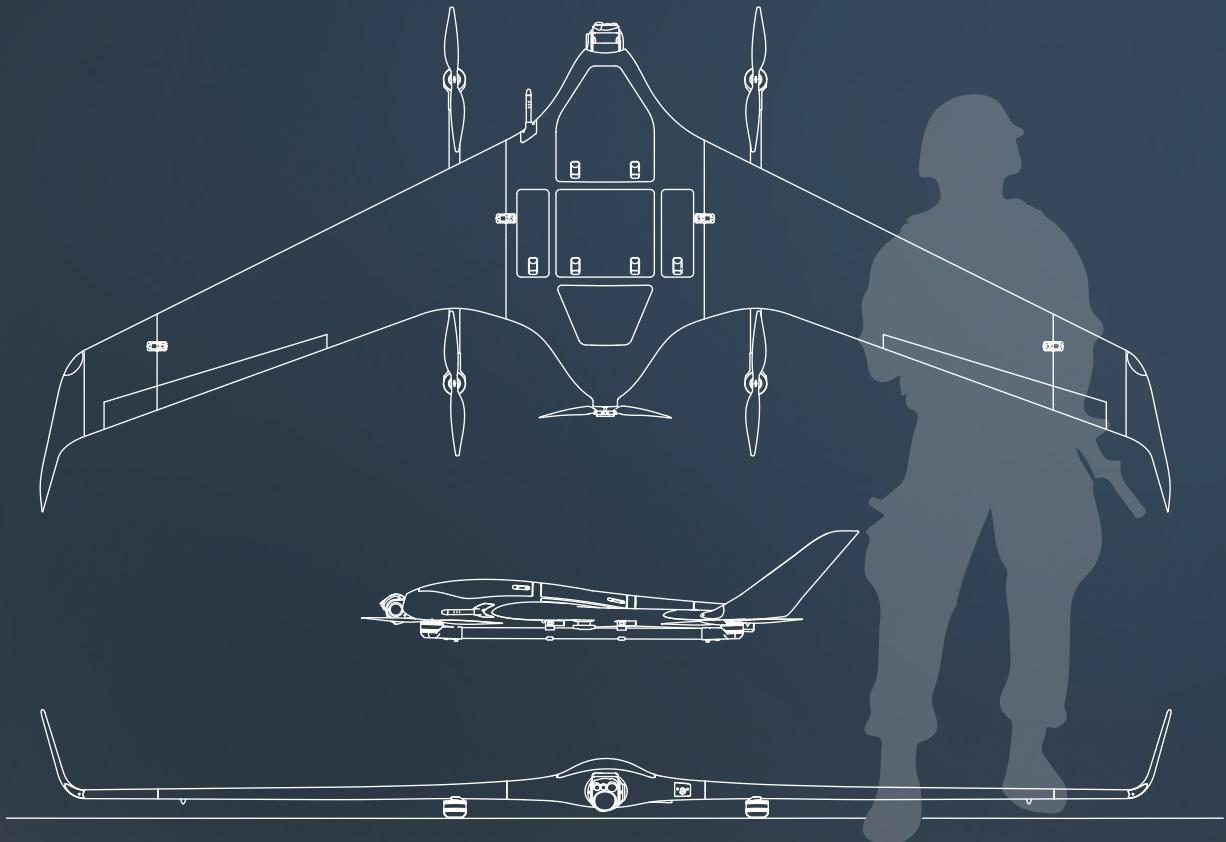
Environment protection	IP65
Military standards	NATO STANAG 4586, CoT
	STANAG 4609, MISB ST 1402.1,
	STD 0601.4 UAS Datalink Local Data Set
Battlefield Man. Systems	COMPATIBLE
Other	FCC / CE / ISO

# THE ULTIMATE C4ISR UNMANNED AIRCRAFT SYSTEM ON THE MARKET



C<sup>3</sup>P command, control, communications and planning software provides superior situational awareness and safety of UAS operations through a user-friendly GUI and intuitive control. With the C-ASTRAL C<sup>3</sup>P (Command, Communications, Control and Planning) software you can plan and execute your UAV flight missions, control the flight parameters and sensors in real time and collect and aggregate geospatial data.





IN USE WITH FORCES



NSN - NATO STOCK NUMBER  
1550-42-000-3356



FLY FURTHER



SEE BETTER