



C-ASTRAL
AEROSPACE

THE NEW SQA

MULTIROLE eVTOL
DEVELOPED BY C-ASTRAL X-WORKS

DEATCHABLE VTOL BOOMS

Quick release system for fast setup

LIDAR SENSOR

100m AGL altitude / 3cm system Accuracy
Up to 3 echoes / 240.000 shots/ sec

NAVIGATION & LANDING

Sub-meter auto-landing accuracy

SUPERIOR AERODYNAMIC EFFICIENCY

Best flight endurance & stability in class

VERTICAL TAKE-OFF & LANDING

Fully autonomous flight with simple GUI



2,5h



multi



160km



vtol



mtow



safety



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SQA SPECIFICATIONS

FLY FURTHER SEE BETTER

SENSORS / PAYLOAD

- EO mapping camera
- Thermal mapping camera
- LIDAR
- Multispectral camera
- EO/IR/LI Gimbal

AIRCRAFT TYPE & AIRFRAME

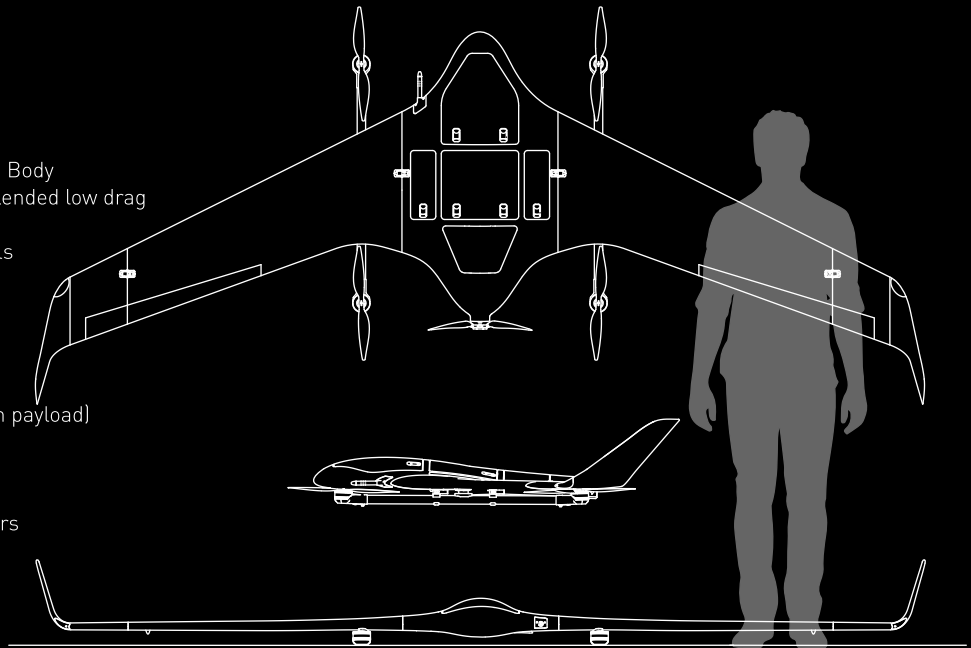
- Fixed wing
- VTOL configuration
- Structure
- Wingspan
- Length central module
- Other

- VTOL Blended Wing Body
- Wing integrated / blended low drag
- detachable boom
- Composite materials
- 2.9 m
- 1.2 m
- Modular assembly

FLIGHT CHARACTERISTICS

- MTOW
- Cruise speed
- Endurance Electric Version
- Pre-flight setup time
- Operator req.
- Max. wind speed on the GND
- Max. wind speed at cruise ALT
- Max. flight altitude
- Take-Off / Landing
- Rescue /Emergency
- VTOL landing area
- Operating temperature

- 10 kg (depending on payload)
- 17 m/s - 30 m/s
- up to 2.5 h
- less than 5 min
- One or Two operators
- 8 m/s
- 12 m/s
- up to 4000 m ASL
- VTOL
- Parachute
- 3 x 3 m
- 20°C to +55°C



AUTOMATED PREFLIGHT CHECKLIST

Digital checklist system

AVIONICS

- Navigation
- GNSS
- Manual landing (option)

- 100% autonomous from take-off to landing
- GNSS / IMU / GPS SPOOFING MITIGATION
- Manual stabilized assisted landing

GCS

- Gimbal Control
- Manual Flight

- Flight stick control
- optional flight stick

GROUND CONTROL STATION

C³P user-friendly interface

STANDARDS

- Environment protection
- Military standards
- Battlefield Man. Systems
- Other

- IP65
- NATO STANAG 4586, CoT
- COMPATIBLE
- FCC / CE / ISO

COMMUNICATIONS

- Data/Videolink
- Comm Range

- IP, Encrypted
- up to 40km LOS

TRANSPORTATION CASE

- Features
- Dimensions
- Standards

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



C³P command, control, communications and planning software provides superior situational awareness and safety of UAV operations through a user-friendly GUI and intuitive control. With the C-ASTRAL C³P (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.

UNMANNED AIRCRAFT SYSTEMS



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