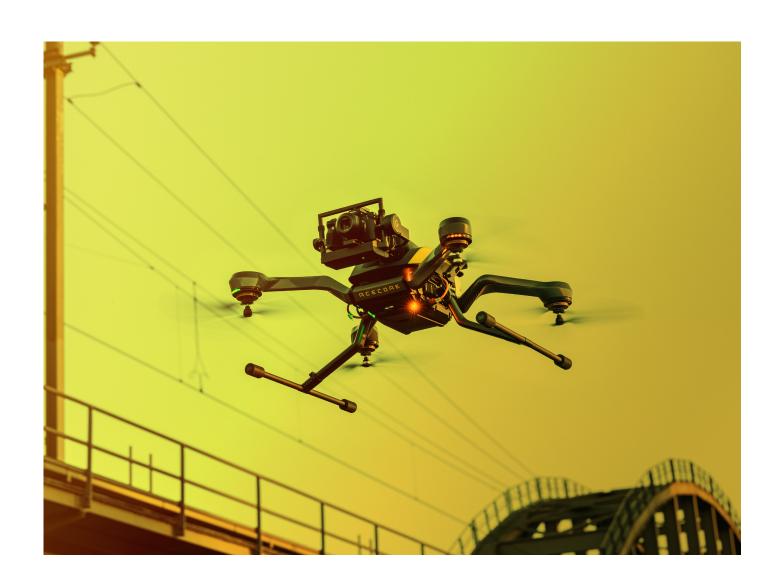


ACECORE TECHNOLOGIES ZOE ZETONA 8

SPECIFICATION SHEET

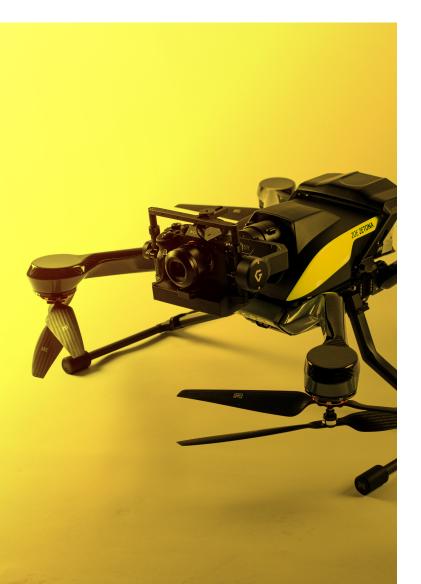




Section 01 Product Description

DESCRIPTION

The Zoe Zetona is a lightweight, multipurpose Remotely Operated Aerial Vehicle for commercial use. Its compact and aerodynamic frame, supporting eight rotors, is designed to meet the versatile demands for the inspection and mapping industries. Although the Zetona is lightweight, it is still powerful enough to lift payloads up to 2.2 kg due to the stiff frame and custom designed coaxial motors.



GENERAL FEATURES

Front mounted payload in 2-axis gimbal 26 minutes endurance with A7r IV
Redundant propulsion system
Lightweight carbon fiber frame
All weatherproof

Single or dual operator setup F9P RTK ADS-B transponder LiDAR obstacle avoidance AES256 encrypted radio link

Full A7R iv control

Automatic image geotagging



Section 02 Product Specifications

SPECIFICATIONS

WEIGHTS

Maximum gross for takeoff (MTOW) 11.95 kg/ 26.35 lbs

Maximum payload 2.2 kg/ 4.85 lbs

Minimum standard empty weight* 4.95 kg/ 10.91 lbs

DRIVE

Energy type Electrical

Number of motors 8

Motor type Acecore MN-COAX360

Operating voltage Up to 50V

Motor max con tinuous Power 2000 W

Idle speed 380 RPM/V

Number of ESCs

Max continuous current draw 55A

PROPELLER

Material Carbon Fiber Reinforced Plastic (CFRP) / foamed

8

core 3K Twill weave

Propeller setup 4 CW and 4 CCW propeller

Propeller type 18x6. 5-inch foldable propeller +

18x6. 5-inch fixed propeller

PAYLOAD

Vibration isolation system Vertical wire damper system

Mounting options Front mounted payload

Mounting system Depending on user's preference

Battery rack Top of centerpiece



Section 02 Product Specifications

AVIONICS

Flight controller Cube flight controller

Version Orange

Operating temperatures $-40^{\circ}\text{C} (-40^{\circ}\text{F}) \text{ to } +85^{\circ}\text{C} (185^{\circ}\text{F})$

FLIGHT BATTERY

Energy type Electrical

Battery Lithium Polymer

Recommended make and models Tattu 17000mAh,

Nominal battery voltage 22.2 V/ 6S

Minimum battery quantity 2 battery packs parallel

Maximum battery voltage 25.2V

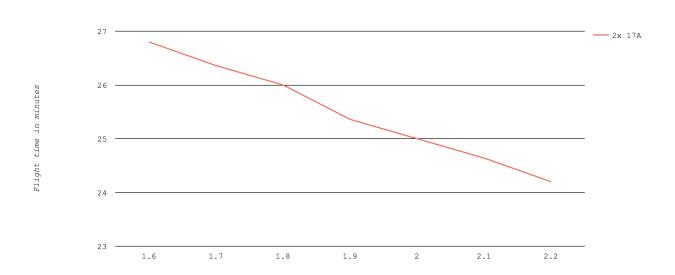
Minimum average battery voltage 21.0V



Section 03 Flight table

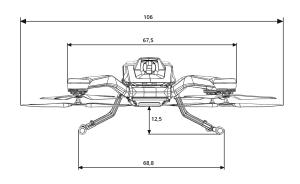
FLIGHT TIMES

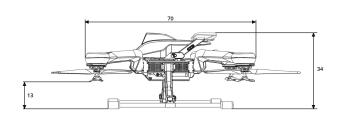
These flight times are representations of the typical flight time in normal conditions and are depending on several factors. The conditions in which these flight times have been tested are at 20°C ambient temperature, a nominal wind speed of 8 knots while hovering at a height of 5 meters above ground. The Zoe Zetona is put back on the ground with 10 percent battery capacity left.





Section 04 Physical





DIMENSIONS

Frame dimensions (lxwxh) 700x675x340 mm

Rotor to rotor diagonal 940 mm

Diameter with propellers 978.5 mm

Height up to bottom plate 125 mm

Ground clearance bottom propeller 130 mm

WEATHER LIMITATIONS

Maximum operating temperature +50°C

Minimum operating temperature -15°C

Maximum flight endurance 26 min @ 1.6KG payload

Maximum wind speed 25 knots

Maximum wind gusts 31 knots

Maximum precipitation Moderate rain conditions, although it is recom-

mended to fly in dry conditions.

Maximum downfall 10 mm/h, 30mm/3h



Section 05 Flight limitations

FLIGHT LIMITATIONS

Maximum pitch/ roll angle 45 Degrees from horizontal

Maximum yaw rate 150 Degrees a second

Maximum flight speed 91km/h horizontal

Flight modes GPS mode – Atti tude mode – Auto mode – Brake

- Stabilize

Typical ascent 5m/s

Typical descent 4m/s

Hovering accuracy Vertical 0.05m/ Horizontal 0.05m

RTL cruise speed Variable from 3 m/s to 9 m/s

