

ACECORE TECHNOLOGIES NEO X8

SPECIFICATION SHEET





Section 01 Product Description

DESCRIPTION

The NEO is a lightweight multipurpose Remotely Operated Aerial Vehicle for commercial use. Its eight - rotor supported frame is designed to give the Pilot in Command the opportunity to use it for almost every mission in various weather conditions. The powerful and custom designed brushless motors increase the level of redundancy and make the system incredibly resistant for stronger wind gusts and high payloads. Due to the flexibility of mounting different battery capacity packs, it enables you to swap payloads. With a maximum take-off mass of 19 kg the NEO is an ideal platform for applicants with the highest demands.



GENERAL FEATURES

Robust carbon fiber frame

Up to 9 kilograms useful payload

All weatherproof

500m/ 5KM/ 16KM range

Single or dual operator setup

ADS-B ready transponder

AES256 encrypted radio link

Triple redundant autopilot



Section 02 Product Specifications

SPECIFICATIONS

WEIGHTS

Maximum gross for takeoff19 kg/ 41.89 lbsMaximum payload9 kg / 19.84 lbsMinimum standard empty weight*7.3 kg / 16.09 lbs

DRIVE

Energy type Electrical

Number of motors 8

Motor type Direct Drive 3-phase BLDC out runner

Operating voltage 25V

Motor max con tinuous Power 900 W

Idle speed 450 RPM/V

Number of ESCs 8

Max continuous current draw 60A

PROPELLER

Material Carbon Fiber Reinforced Plastic (CFRP) / foamed

core 3K Twill weave

Propeller setup 4 CW and 4 CCW propeller

Propeller type 18x6. 5-inch fixed propeller

PAYLOAD

Vibration isolation system Octo metal wire damper system

Mounting options Top and bottom mounting possible

Mounting system Depending on users preference

Battery rack

Top of centerpiece or below on quick release



Section 02 Product Specifications

AVIONICS

Flight controller Cube flight controller

Version Orange/ Blue

Operating temperatures -40°C (-40°F) to +85°C (185°F)

FLIGHT BATTERY

Energy type Electrical

Battery Lithium Polymer

Recommended make and models Tattu 4500mAh, 10000mAh, 17000mAh,

23000mAh

Nominal battery voltage 22.2 V/ 6S

Minimum battery quantity 2 battery packs parallel

Maximum battery voltage 25.2V

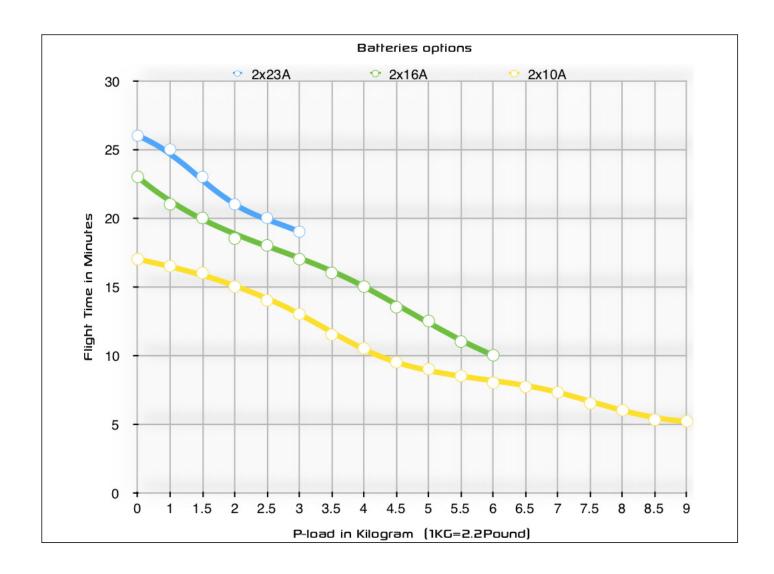
Minimum average battery voltage 21.0V



Section 03 Flight table

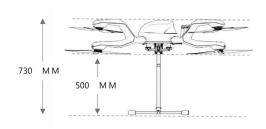
FLIGHT TIMES

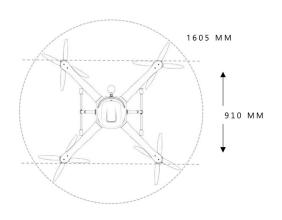
These flight times are representations of the typical flight time in normal conditions and are depending on several factors. The conditions in which these flight times have been tested are at 20°C ambient temperature, a nominal wind speed of 8 knots while hovering at a height of 5 meters above ground.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





Section 04 Physical





DIMENSIONS

Frame dimensions

Rotor to rotor diagonal

Diameter with propellers

Height up to payload quick release

Ground clearance top propeller

Ground clearance bottom propeller

(lxwxh) 910x910x635 mm

1260 mm

1605 mm

480 mm

650 mm

500 mm

WEATHER LIMITATIONS

Maximum operating temperature

Minimum operating temperature

Maximum flight endurance

Maximum wind speed

Maximum wind gusts

Maximum precipitation

Maximum downfall

+50°C

-15°C

25 min

35 knots

40 knots

Moderate rain conditions, although it is recom-

mended to fly in dry conditions.

10 mm/h, 30mm/3h



Section 05 Flight limitations

FLIGHT LIMITATIONS

Maximum pitch/ roll angle 45 Degrees from horizontal

Maximum yaw rate 150 Degrees per second

Maximum flight speed 91 km/h horizontal

Flight modes GPS mode – Attitude mode – Auto mode – Brake

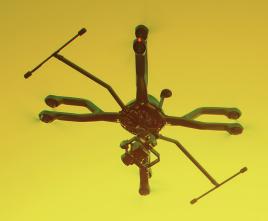
- Stabilize

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





Section 06 Product Accessoires

ACCESSOIRES

The Acecore Neo drone comes with a wide array of accessoires to configure to your needs. Depending on the mission, there's options to choose from for controlling, transporting and using the highly dependable octocopter. Payloads are intentionally left out of this list as they can be configured independently of the platform. For a current overview of available payloads please visit www.acecoretechnologies.com





ACECORE GEORGE

FrSky and Herelink version available
On-board power
Up to 16km range
Dual- and single operator
compatible

GROUND CONTROL STATION

Built in 15.6" 2000 nits monitor

Rugged IP casing

Integrated FrSky remote

On-board power

On-board TX video link



Section 06 Product Accessoires



COMPACT CASE

Carbon fiber or wooden structure

Foam cut interior

Designated slots for George

and batteries



LR ALL-IN-1 LINK

Up to 5km range
Seamless drone integration
Drone control & video- telemetry
link in one



TETHER STATION

Achieve unlimited flight time 60-100m power cord Redundant fail-safe battery Encrypted data transfer