en/ArfOktoXL

24

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MikroKopter.de

Inhaltsverzeichnis

1 ARF OktoKopter XL 4S12

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The Okto-XL is available in a ARF (Almost ready to Fly) - Version.

Only a few steps are nessecary:

- Assemble the Lipo-holder
- Attach the landing gear
- Attach the receiver
- Mount the propellers

No soldering nessecary!

All electronic devices are tested, programmed and configurated.

GPS and NaviCtrl are already included.

The ARF-Okto is already configurated for the mx-32 and mx.32 HoTT Transmitters. So it is the easiest way to start.

1.1 Video: Okto XL in a storm

1.2 Detail photos


(click to enlarge)

1.3 Transmitter functions

All major functions of the OktoKopter can be controlled from ground:

- Pitch / roll / yaw and trottle to fly
- GPS mode
- Altitude controller
- Camera tilt
- Camera control (video start / stop or continuous shooting)
- Direction independent control mode "Carefree"
- ...

1.3.1 Telemetry

The following values are displayed in the Telemetry menu:

- Battery voltage [V]
- Flight time [min:sec]
- Used Lipo Capacity [mAh]
- Altitude [m]
- Direction of the MikroKopter [°]
- Current [A]
- Number of GPS satellites
- Speed [km/H]
- Distance and direction to the starting position [m],[°]
- Error message in plain text when needed

Additionally you can have additional information such as the single temperatures of each motor controller (Brushless ESC).

1.3.2 Speech

The transmitter has a built-in speech output. So, all values of the telemetry are available as an announcement.

Example: If you move the GPS switch to the "hold position", says the station "GPS hold".

In addition, important messages are spoken automatically like "Low Voltage".

1.4 Manual

MikroKopter.de

ARF-MikroKopter

OktoXL + OktoXL 6S12

Bedienungsanleitung

(open manual -> Click picture)

1.5 Technical data

- Dimensions 73x73x36 (BxLxH)
- Payload: recommended max. payload = 2500g
- Max. altitude: Line of sight (several 100m)
- Max. distance: Line of sight (several 100m)
- Flight time: max. 45min at full battery load (30Ah)
- Realistic flight time: 18-28Min (10Ah) See tables below
- Telemetry with speech: Voltage, capacity, current, altitude, distance, direction, speed, temperature, ...

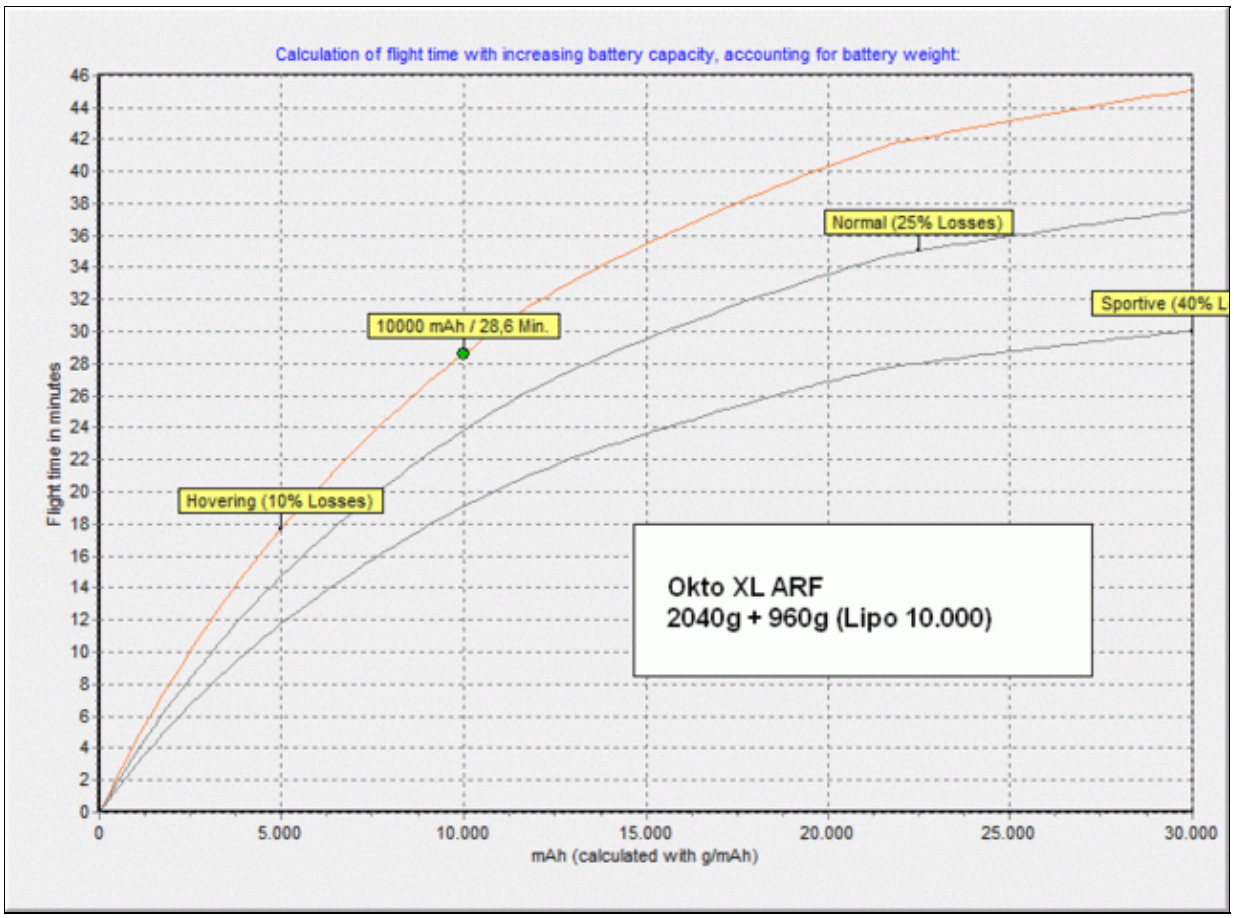
1.5.1 Flight times

The flight times can be read in the diagrams below

1.5.1.1 Flight time over capacity

There are three different curves below

- Hoovering -> with no wind and e.g. position Hold
- Normal -> in light wind and normal flight
- Sportive -> high winds or fast flight

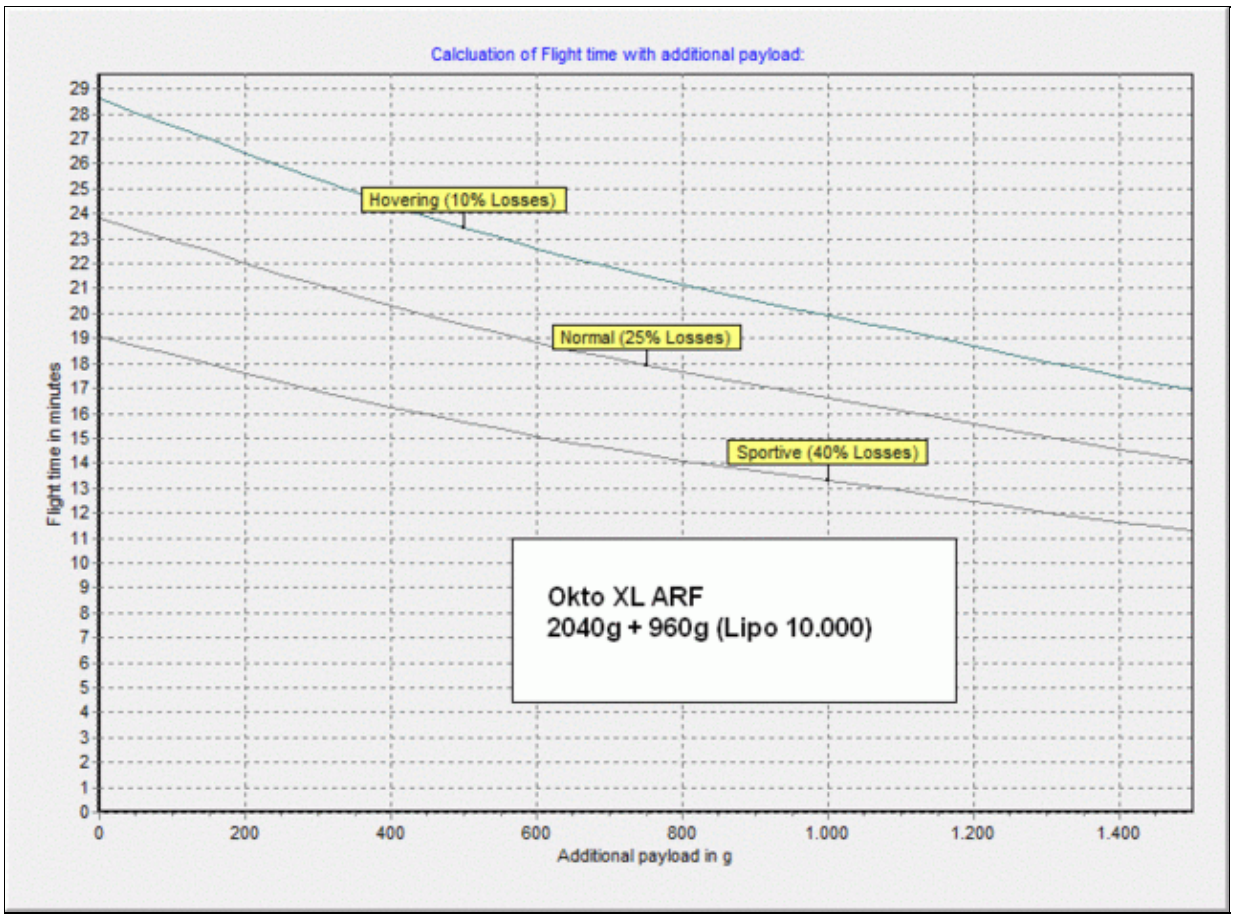


- Example: max. 28.6 min at 10.000mAh (e.g. 2 * 5.000mAh parallel)
- Example: max. 40.5 min at 20.000mAh (e.g. 4 * 5.000mAh parallel)

1.5.1.2 Flight time with 10Ah Lipo

Here are also the three curves (see above)

The curves are calculated for a 10.000 Lipo.



- Example: Without payload: max. 28,6 min
- Example: With 1000g payload: max 20min

1.6 Assembling

1.7 Details

1.7.1 Assembled body

1.7.2 Carbon frame parts

1.7.3 Carbon propellers

1.7.4 easy access to the data interface

1.7.5 stronger aluminium riggers (1,5mm)

2 Recomended parts

2.1 Charger

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2.1.1 Transmitter

Shop

2.1.2 Camera mount

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