



AC4 UL

Spacious



www.lightwing.ch

Echo-class flying in the ultralight class = AC4 UL

As a UL with a total weight of 600 kg, the AC4 UL combines the advantages of LSA and UL: high construction quality according to LSA standards and the great freedom of ultralight flying

Spacious

Equipped with a generous amount of space, the cabin size sets new standards with a width of 1.26 metres and provides sufficient headroom even for 2-metre tall pilots. Two large suitcases can be easily loaded in the luggage compartment behind the seats and there is sufficient space in front of the seats for the pilot's bag, ensuring that it is easily accessible during the flight.

Safe and simple to fly

The flight characteristics are impressively simple. Due to the large tail unit and long fuselage, the AC4 UL is extremely stable. Rudder movements are implemented precisely and without delay, and the electric trim can be adjusted accurately. The undercarriage with its large wheels are perfectly designed for rough air-fields. The low-speed flight characteristics are unproblematic and easy to control. An integrated Junkers Magnum ballistic recovery system provides additional safety.

Economical & quiet

The robust built AC4 UL is equipped with the Rotax 912iS direct injection engine. As a result, the silent high-wing aircraft achieves fuel consumption of only 9 to 14 litres per hour. Therefore the AC4 UL not only flies ecologically, but also helps to keep operating costs low. Due to the fully automatic, electronic control of the engine, up to 10 % more power in hot & high conditions can be achieved. And by far better reliability compared to carburettor engines. In addition to numerous other values such as throttle position in %, EGT and CHT are also displayed for each individual cylinder.

State-of-the-art Avionics

The innovative and high-quality avionics package consists of the Kanardia NESIS III system with two 8.4" touchscreens offering analogue instrument displays or, at the touch of a button, the modern EFIS display. The charts fulfil every wish: from vector charts with visual approach routes and taxi charts right through to your own high-resolution pixel charts, including cross-section display. The traffic warning system from Air Avionics recognises and displays other aircraft and obstacles, both in its own display and in the NESIS III and furthermore alerts of dangerous traffic via voice output. The radio as well as the transponder are also from Air Avionics and convince with the highest levels of quality, intuitive operation and helpful functions such as NRST Airport or Say-Again.



Lightwing AC4 UL — Technical Data

- High strutted wing, 2 Seats
- Anodized aluminium structure
- Polyester laminate for wings and flying control surfaces
- 100 PS 4-stroke engine Rotax 912iS Sport with redundant electronic fuel injection system
- 3-blade propeller Neuform
- Ballistic recovery system Junkers Magnum 601
- Equip. Data sheet: 987-21 1
- Generose glazing for good visibility

Speed/Performance

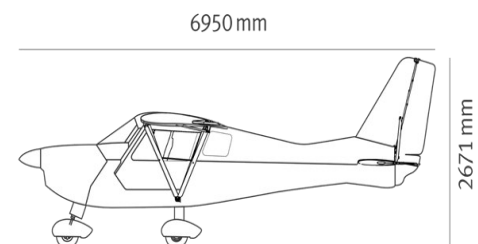
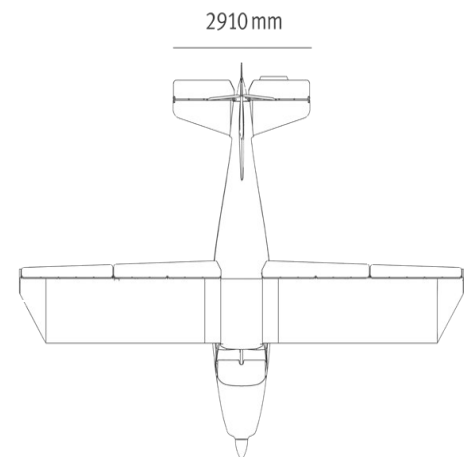
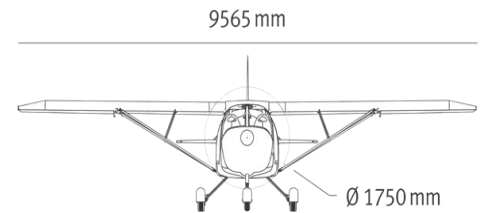
		Metric	Standard
Stallspeed Flaps 24°	V _{SO}	76 km/h	41 KIAS
Stallspeed Flaps 0°	V _{S1}	82 km/h	44 KIAS
Flapspeed	V _{FE}	165 km/h	89 KIAS
Maximum speed IAS	V _{NE}	210 km/h	113 KIAS
Manouvering Speed	V _A	176 km/h	95 KIAS
Climb rate at MTOW		4.4 m/s	876 ft/min
Best climb angle	V _X	108 km/h	58 KIAS
Roll distance		138 m	452 ft
Take off distance over 15m/50ft		276 m	905 ft
Load factor		+4/-2g	+4/-2g

Weights

Maximum take-off weight	600 kg	1'389 lbs
Maximum payload	220 kg	440 lbs
Fuel tank capacity (flyable)	90 l	24 gal
Fuel consumption	14 l/h	3.73 gal/h
Baggage compartment Volume	550 Liter	19.4 ft ³
Baggage Weight	2 x 25 kg	2 x 55 lbs

Dimension

Wing span	9.57 m	31.4 ft
Total length	6.95 m	22 ft
Maximum height	2.67 m	8.76 ft
Kabinenbreite	1.26 m	4.13 ft
Tyre front gear	4.00-6"	4.00-6"
Tyre main gear	15x6.00-6"	15x6.00-6"



Spacious, safe, rugged, economical





Bundesrepublik Deutschland
Der Beauftragte



**Musterzulassungsschein
für Luftsportgeräte
Type Certificate
Nr.: 987-21 1**

Das nachstehend bezeichnete Luftfahrzeug wurde als Muster zugelassen auf Antrag von:
- LIGHTWING AG -
- Riedermatt 1 - 6370 Stans (SCHWYZ) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß
zugehörigem Geräte-Kennblatt-Nr.: 987-21 1
Bezeichnung des Gerätemusters: AC4-UL
Bezeichnung der Baureihe: Rotax 912 iS Sport / CR3-75-47-101,6
Geräteart: Dreisitz

Die Musterzulassung kann in den in § 4 Abs. 3 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:
LIGHTWING AG
Riedermatt 1 - 6370 Stans (SCHWYZ)

This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

The type certification is effective in accordance with the appropriate data sheet No.: 987-21 1
description of mark: AC4-UL
description of model: Rotax 912 iS Sport / CR3-75-47-101,6
device type: Dreisitz

The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue
Großlerach, den 16.12.2021

Unterschrift / signature
