

# Newsletter Lightwing



**Do you know....**

**the economical Lightwing AC4 training aircraft, made in Switzerland?**

The Lightwing AC4, with its lightweight construction, durable and extremely economical operation, can be used without restriction as a modern training aircraft for PPL/LAPL training.



## **Why is the Lightwing AC4 so popular for basic training?**

- Safe, simple, and straightforward operation
- Good-natured flight characteristics in every speed range
- Rugged undercarriage
- Economical engine
- Low operating costs
- Modern, state-of-the-art avionics technology attracts young pilots
- Excellent power margins
- Short take-off run
- Generous glazing, excellent visibility
- Very spacious cabin
- Low noise level
- Easy accessibility for maintenance

## **State-of-the-art and economical**

The economical, water-cooled 100 hp injection engine starts reliably at any temperature. The engine always runs in the optimum range with a fuel consumption of just 14 litres per hour. Combined with the good payload and generous luggage space, this is an invitation for longer journeys.



### State-of-the-art avionics

In addition to basic instrumentation, Dynon's EFIS fulfils every requirement. It can be used with synthetic vision or to display analogue instrumentation (six-pack).



**Synthetic Vision**



**Six-Pack**



**Basic**



Vector, pixel, approach and aerodrome charts can be displayed. Wi-Fi connection to flight planning programmes such as Easy VFR, Fore Flight, Skydemon, Sky-Map, etc. is standard. Uploading your plan to the EFIS is very simple.

The Engine Monitor Unit records all engine and flight parameters and can be easily retrieved and analysed.

### Awareness of the traffic situation

Other traffic is displayed on the map in the EFIS with position, direction and relative altitude difference.



### **Simple and safe Operation**

The flight characteristics are extremely safe and stable, also at low speeds.

Comfortable seats, a very wide cockpit measuring 1.26 m and excellent visibility allows fatigue-free flying, especially over long distances. The take-off roll distance is truly short at 138 m and the climb performance is impressive also when fully loaded, which is also advantageous in the Alps.



The AC4 is an excellent and safe training aircraft to learn the basics and enjoying relaxed journeys.

### **Sturdy**

The robust landing gear and the large propeller clearance from the ground are appreciated when using grass runways. This has proved highly effective, also if the landing is a bit harder than usual.

### **Lightweight and maintenance-friendly**

The AC4 is a light aircraft which impresses with its simple design. This includes an exceptionally straightforward wing, consisting of a basic structure and tear-resistant fabric.

The wing does not have a usual covering which is glued on, heat-stretched or treated with tension varnish, but rather a prefabricated, sewn fabric which is stretched at the same time as the support frame is being stretched. The fabric offers very high dimensional stability, durability and tear resistance. The material used is a double-laminated polyester fabric with an inserted mesh for maximum tensile, shear and tear resistance, which also offers additional UV protection.



**Zipper Access for  
inspection**

The interior of the wing is easily accessible for inspection via zippers. Should repairs be necessary, they can be carried out with minimal effort.

## Technical Details AC4 CS-LSA

Speed/Performance		Metric	Standard
Stallspeed Flaps 24°	V <sub>SO</sub>	76 km/h	41 KIAS
Stallspeed Flaps 0°	V <sub>S1</sub>	82 km/h	44 KIAS
Flapspeed	V <sub>FE</sub>	165 km/h	89 KIAS
Maximum speed IAS	V <sub>NE</sub>	210 km/h	113 KIAS
Manouvering Speed	V <sub>A</sub>	176 km/h	95 KIAS
Climb rate at MTOW		4.4 m/s	876 ft/min
Ground Roll distance		138 m	452 ft
Take off distance over 15m/50ft		276 m	905 ft
Maximum take-off weight		600 kg	1'389 lbs
Maximum payload		216 kg	470 lbs
Fuel tank capacity (flyable)		90 l	24 gal
Fuel consumption		14 l/h	3.73 gal/h
Endurance		6 h	6 h
Range incl. 30 Min reserve		1'056km	578 Nm
Baggage compartment Volume		550 Liter	19.4 ft³
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
Cabin width		1.26 m	4.13 ft



Light Wing AG is one of only three aircraft manufacturers in Switzerland to be certified with a POA (Production Organisation Approval). Light Wing AG produces aircrafts in Stans to ensure pilot training with modern engine technology and avionics is more ecological, quieter and more economical. The CS-LSA-certified aircraft are fuel-efficient sports, towing and training aircrafts with excellent flight and stall characteristics, coupled with state-of-the-art avionics, simple operation and very robust construction.

