UTVA

LİON HAVACILIK
SANAYİ VE TİCARET ANONİM ŞİRKETİ

UTVA 75A41M - SOVA

BASE AIRCRAFT

UTVA 75A21

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UTVA 75A21

LONG HISTORY

Airplane has been proven in exploitation for over 40 years. Used by Serbian Air Force since 1979.

PRODUCTION

Utva aircraft industry produced over 135 airplanes. All parts and accessories were manufactured in Utva except equipment and powerplant. Tooling was design and manufactured in house.

SAFE

Airplane has no accidents regarding the airplane malfunction. This promote airplane as best choice for primary selection and initial training.

TECHNICAL SUPPORT

Airplane is still in use in Serbian Air Force. Utva provide all that is necessary for continuous airworthiness.

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GENERAL DATA

DIMENSIONS AND PERFORMANCE

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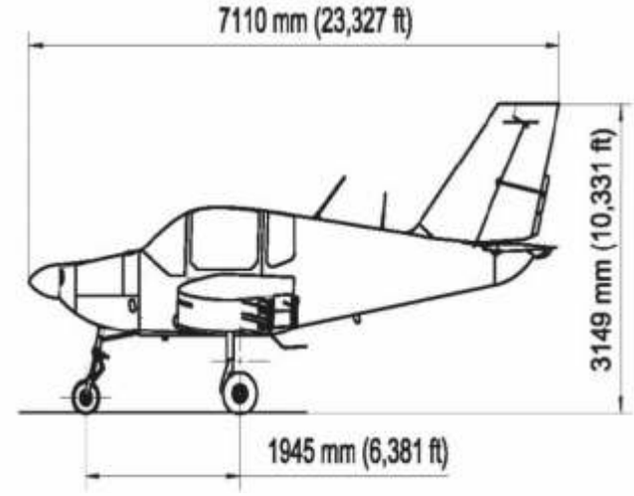
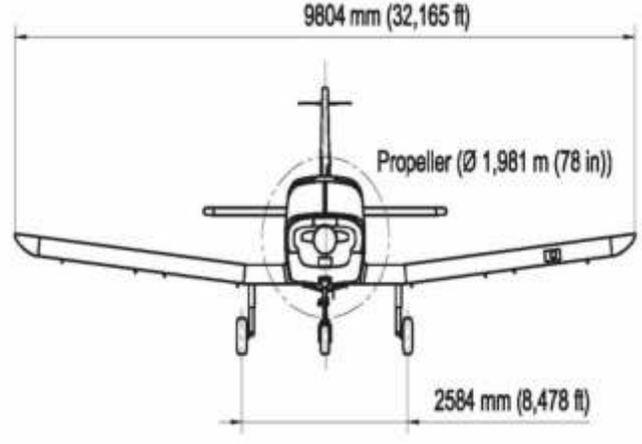
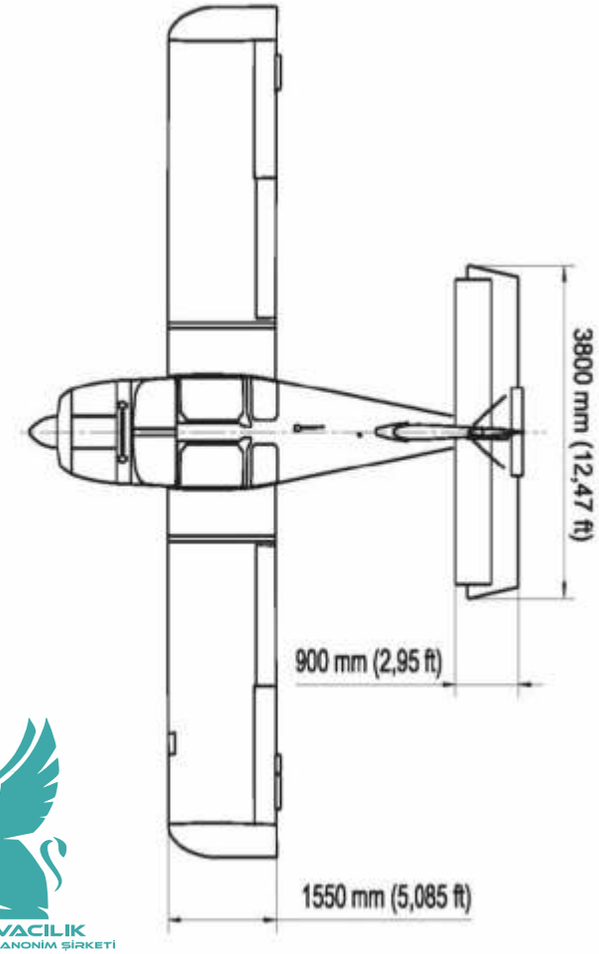
WEIGHT AND DIMENSIONS

Empty weight	780 kg	1720 lb
Maximum Takeoff weight (utility)	1200 kg	2645 lb
Maximum Takeoff weight (normal)	1050 kg	2315 lb
Maximum Landing weight	1200 kg	2645 lb

Length	7,11 m	23,3 ft
Wing span	9,804 m	32,2 ft
Height	3,149 m	10,3 ft
Wheel track	2,584 m	8,5 ft
Wing area	15,1 m^2	162,5 ft2







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PERFORMANCE

Maximum level speed @ S/L	230 km/h	118 kts
Stall speed (flaps up, idle)	105 km/h	54 kts
Stall speed (flaps down/idle)	95 km/h	49 kts
Maximum rate of climb @ S/L	4 m/s	787 ft/min
Best climb	150km/h	77 kts
Service ceiling @ 1200kg	3200 m	10500 ft

- Low wing aircraft provides you feel like in aerobatic aircrafts
- Side by side configuration makes airplane best choise for training schools and private owners
- Good performance provides possibility of students to feel the speeds and some aerobatic maneuvers

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PERFORMANCE

Ground run (unpaved)	459 m	1505 ft
T-O dist. over 50 ft (15 m) obs.	665 m	2180 ft
LND dist. over 50 ft (15 m) obs.	440 m	1440 ft
Landing run (unpaved)	189 m	620 ft
Endurance	4,2 h	
Max load factors (Utility)	+4,4g	-1,76g

- Robust landing gears allow airplane to land on unpaved surfaces and hard landings.
- Ideal for first stage of pilot trainings
- Short T-O and LND distances makes airplane suitable to operate on short runways
- Long endurance means less landings for refueling and more time in air
- Normal / Utility airplane with maximum load factors up to 4,4g

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SAFETY

- Low stall speed of less than 100 km/h makes airplane safe in low speed maneuvers and landings
- SOVA's performance provide tolerance to inexperienced pilots
- Friendly stall behavior let pilots to understand what's going on and a plenty of time to correct any errors
- Glide testing's and exploitation shows that airplane provides safe handling and landing when engine inoperative

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SOLUTIONS

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STRUCTURE AND SYSTEMS

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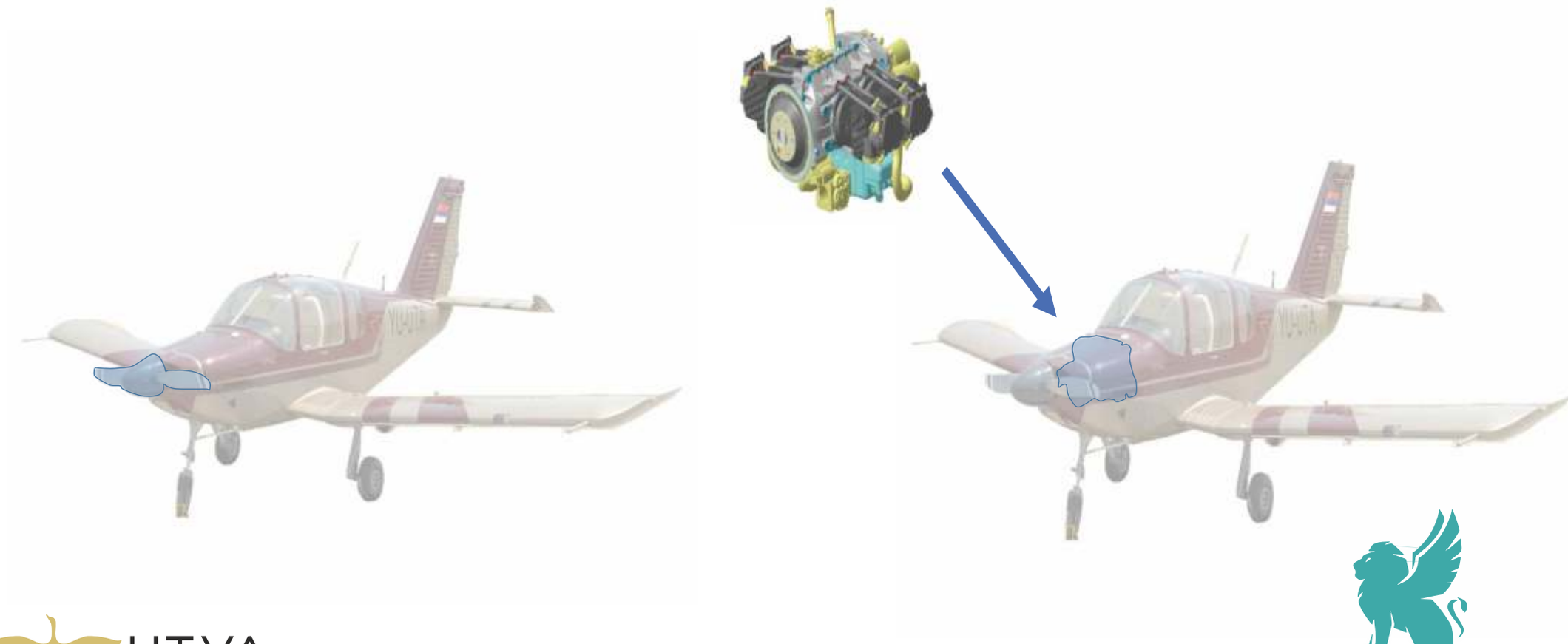
POWERPLANT

- Certified Hartzell propeller, two-bladed, metal
- Constant speed HC-C2YR-1BFP/F 7894
- maximum 2700 rpm, diameter 1,98 m
- Lycoming IO-390 A3A6 engine, certified on multiple aircrafts
- Maximum power 155 kW



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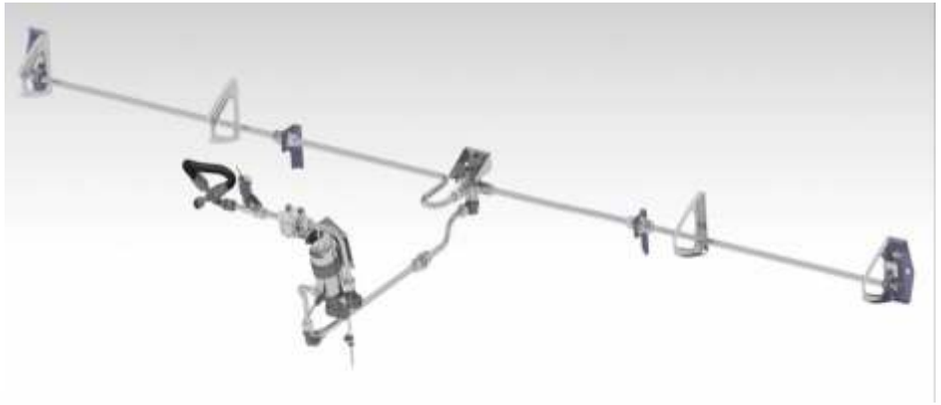
MECHANICAL SYSTEMS



- **Fuel system**: integral wing tanks, standby pump, shut-off valve
- **Hydraulic systems**: breaking system, operated with reliable and tested hydraulic devices, good handling capability on ground
- **Ventilation and heating/cooling system**: Low CO concentration less than 2ppm, air-condition unit cool down cabin on ground and in air during flight, making pilot feel comfortable in hot day condition

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ERGONOMY

- Ergonomic accommodation for 90% of pilots
- Safe accommodation for 99% of pilots
- Good visibility
- Height adjustable seats (5 positions)
- Adjustable rudder pedals
- 3-point seat straps
- Slanted instrument panels
- Option: Luxury version (leather seats, interior color)

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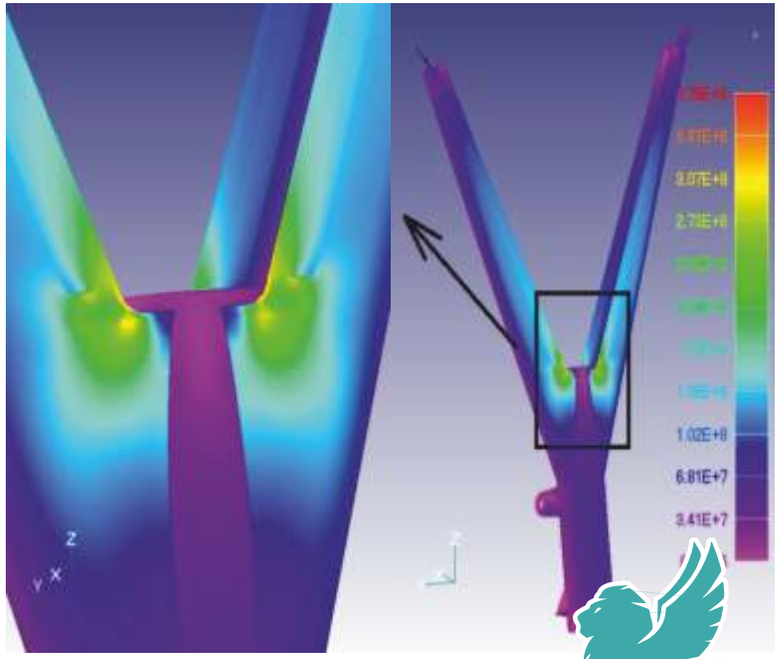
LANDING GEAR

- Robust, making possible for hard landings and forgives inexperienced pilots
- Design and tested on sophisticated test tables for loads several times that experienced in exploitation
- Takeoff/landing on concrete or prepared grass runways



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AVIONICS

Modern NAV/COM equipment provides the following main functions:

- Two-way radio communication air-to-ground and air-to-air in VHF range, with simultaneous reception of all audio, with intercom enabling communication between the pilots.
- The following NAV systems are integrated: satellite navigation GPS, VHF radio navigation VOR, DME and radio compass (ADF)
- ILS system (GS/LOC) for landing in adverse weather conditions, during day and night
- Marker beacon indication for the runway
- Radar identification of an aircraft by means of transponder (operating in S mode).

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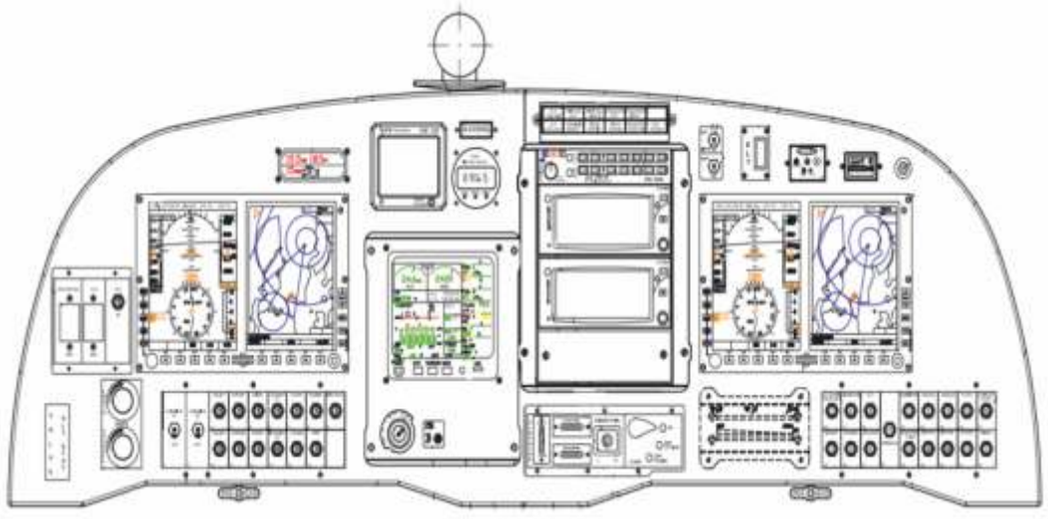
GLASS COCKPIT



Glass-cockpit instrument panel

- GARMIN G500
- GARMIN GTN 650
- MVP 50P
- SAI 340 (Backup)
- ELT ME 406
- DME KN 63
- Transponder GTX 33

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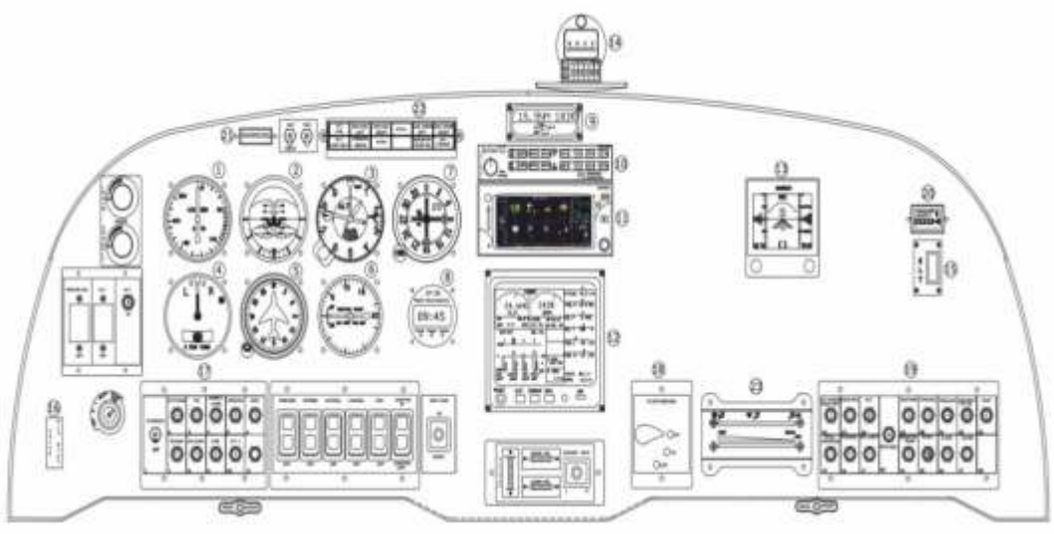
ANALOG VERSION



Analog instrument panel

- Airspeed indicator
  LUN 1116.F3B single scale
- Altimeter LUN 1128.13B6
- Vertical speed indicator
  LUN 1144.A3B1
- Turn and slip indicator LUN 1216.B8
- Attitude indicator LUN 1241.HBG8R
- Gyro directional DG MD-Continental

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EQUIPMENT

FLIGHT DATA AND VOICE RECORDER

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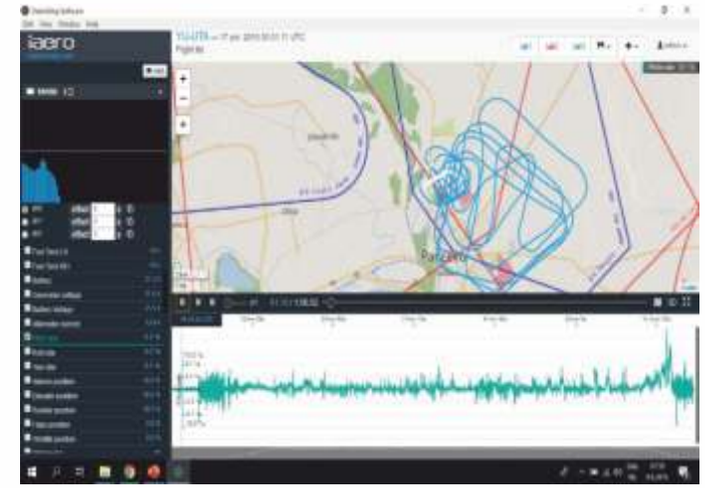
FLIGHT DATA AND VOICE RECORDER

Capabilities:

- Aircraft Data Recording
- Cockpit Audio Recording
- Trend monitoring
- Debriefing app



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FLIGHT DATA AND VOICE RECORDER

- Large data capacity

The system may provide you a large panel of information. Thanks to its very large memory capacity it can record over 100 parameters

- Crash and fire resistant

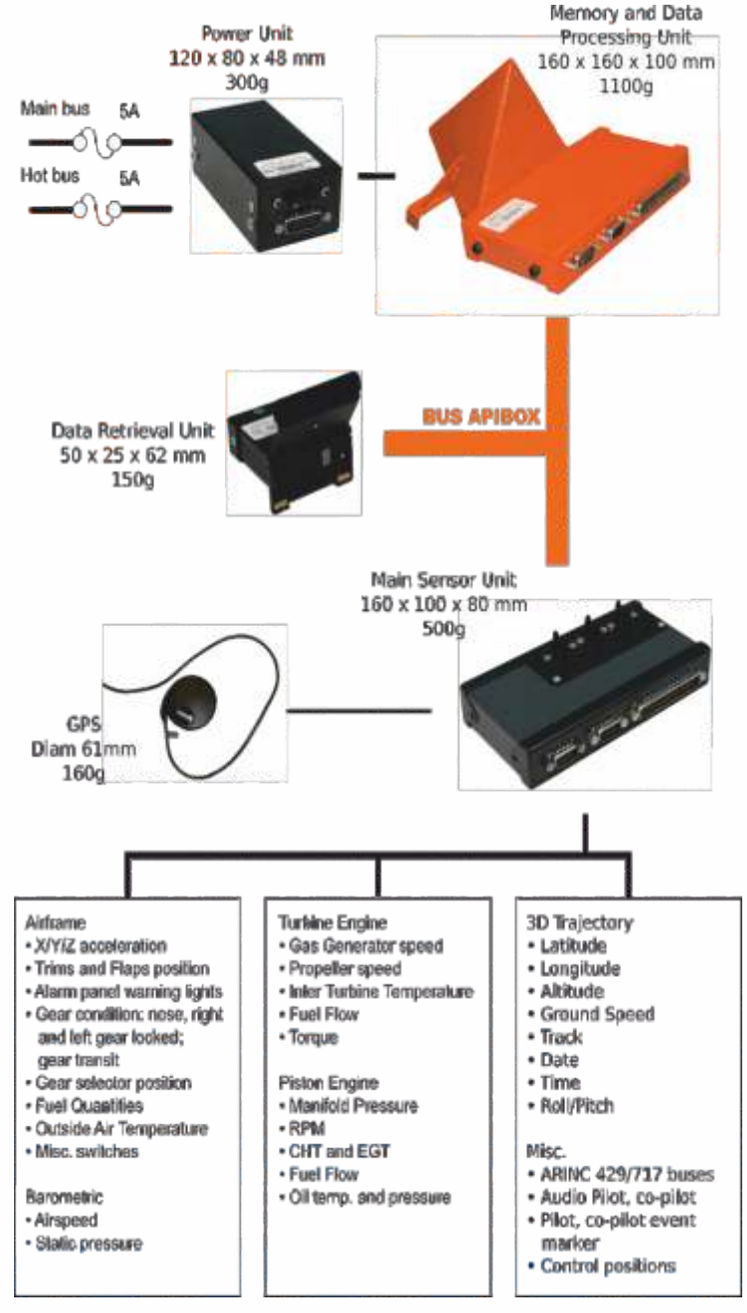
Build based on crash and fire regulations ED-155

- User friendly

Data are easily downloaded so you can instantly replay your flight on your computer

- Quick return on investment

Operational advantages with maintenance trend monitoring and failure analysis



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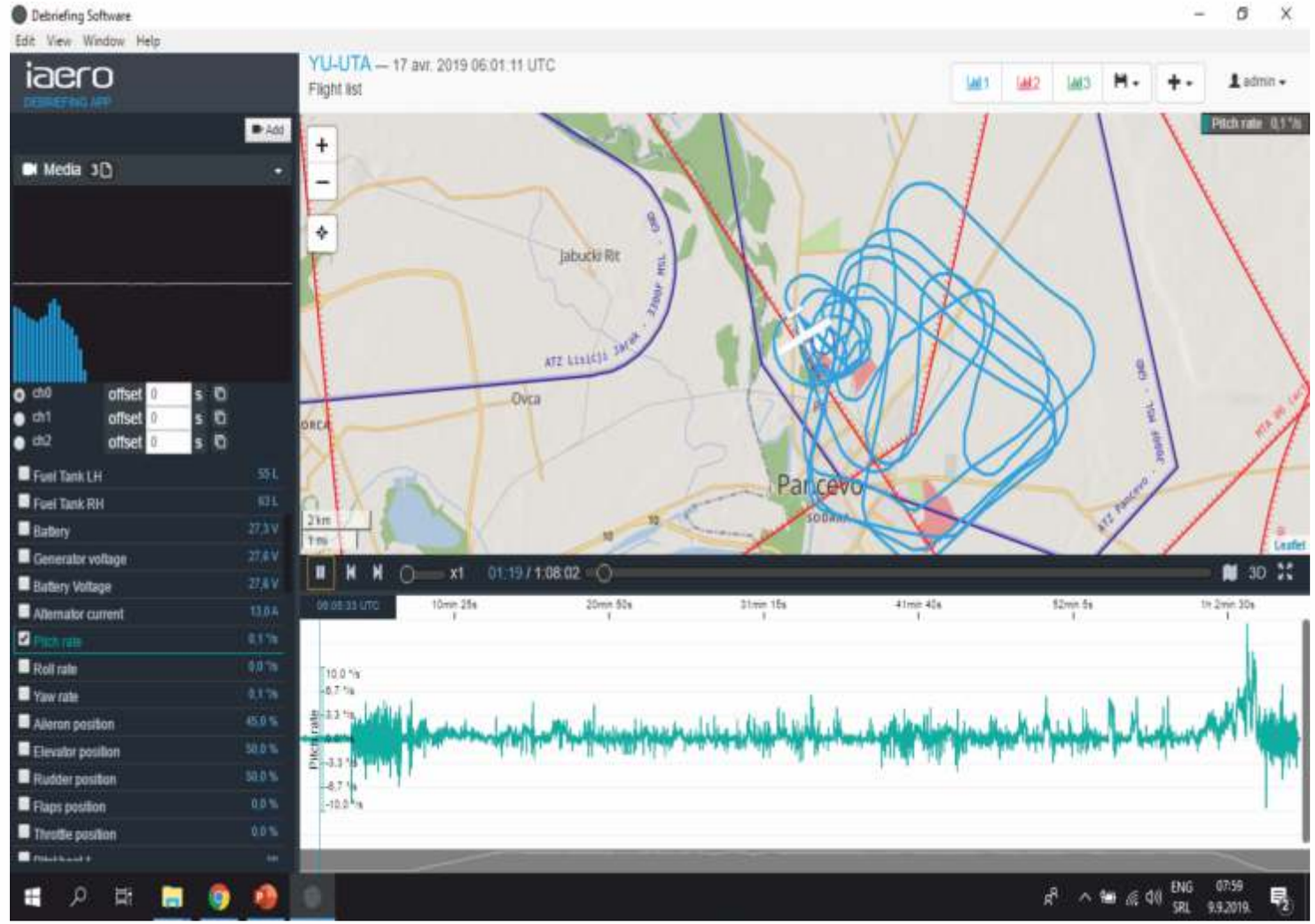
FLIGHT DATA AND VOICE RECORDER

Debriefing app:

- Monitor over 100 parameters
- Inspect and learn from flights
- Monitor air data
- Monitor Engine parameters
- Monitor NAV parameters



Example of real flight test situation

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CONCLUSION

BENEFITS

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CONCLUSION

“SOVA” is a modern, piston-engine driven Normal/Utility aircraft with side by side seating arrangement, low acquisition and operational cost.
Intended for:

- Elementary and basic flight training
- Sport flying
- Aero-taxi
- Surveillance
- Air quality monitoring
- Border control
- Fire fighting control

The aircraft high versatility enable wide range of usage. One flight hour costs only 70 USD per hour of flight, excluding maintenace stuff and pilot man-hour. Pilots can be trained for instrument flying, navigation flying in all conditions, day or night.

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THANK YOU

PICTURES

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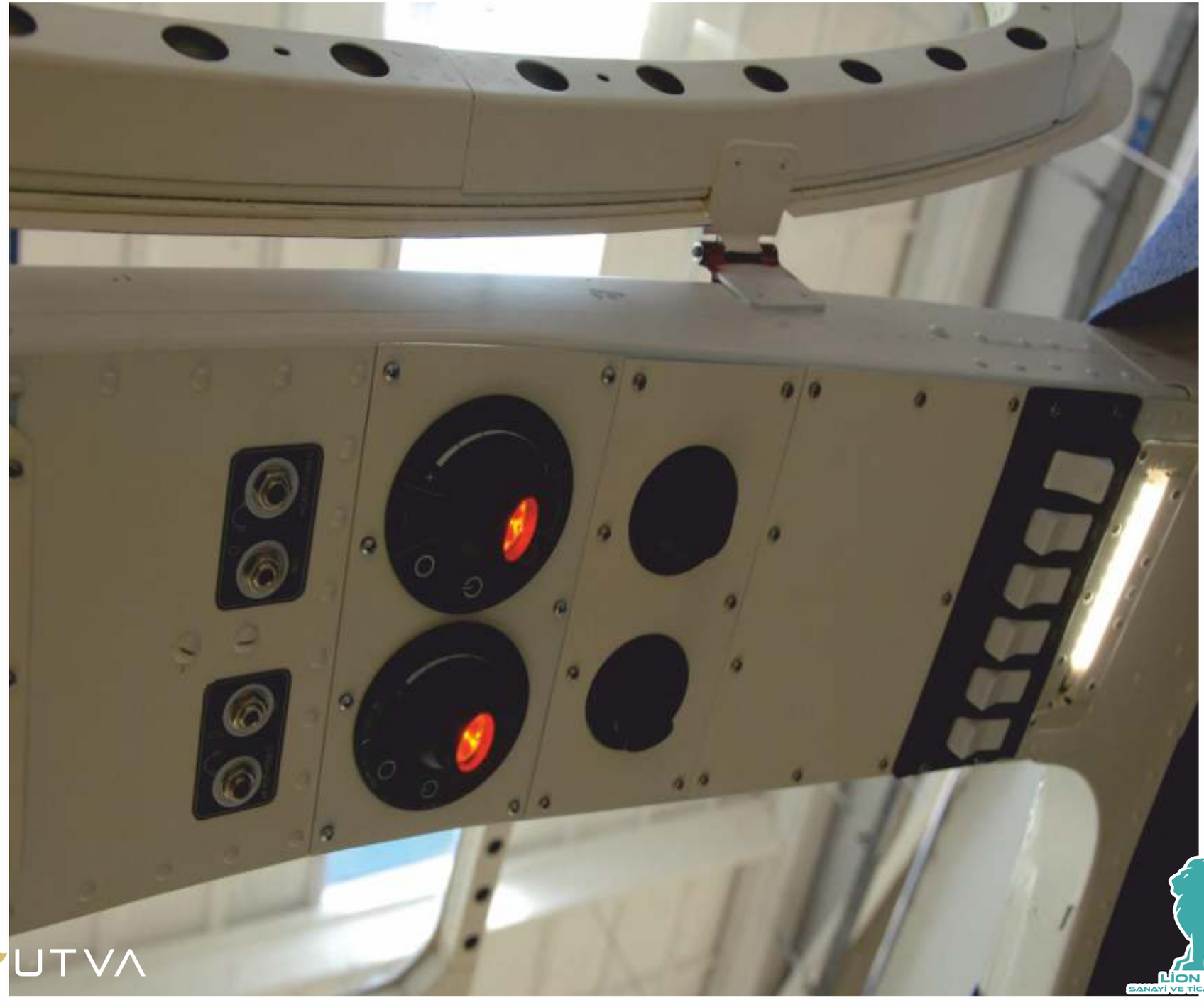

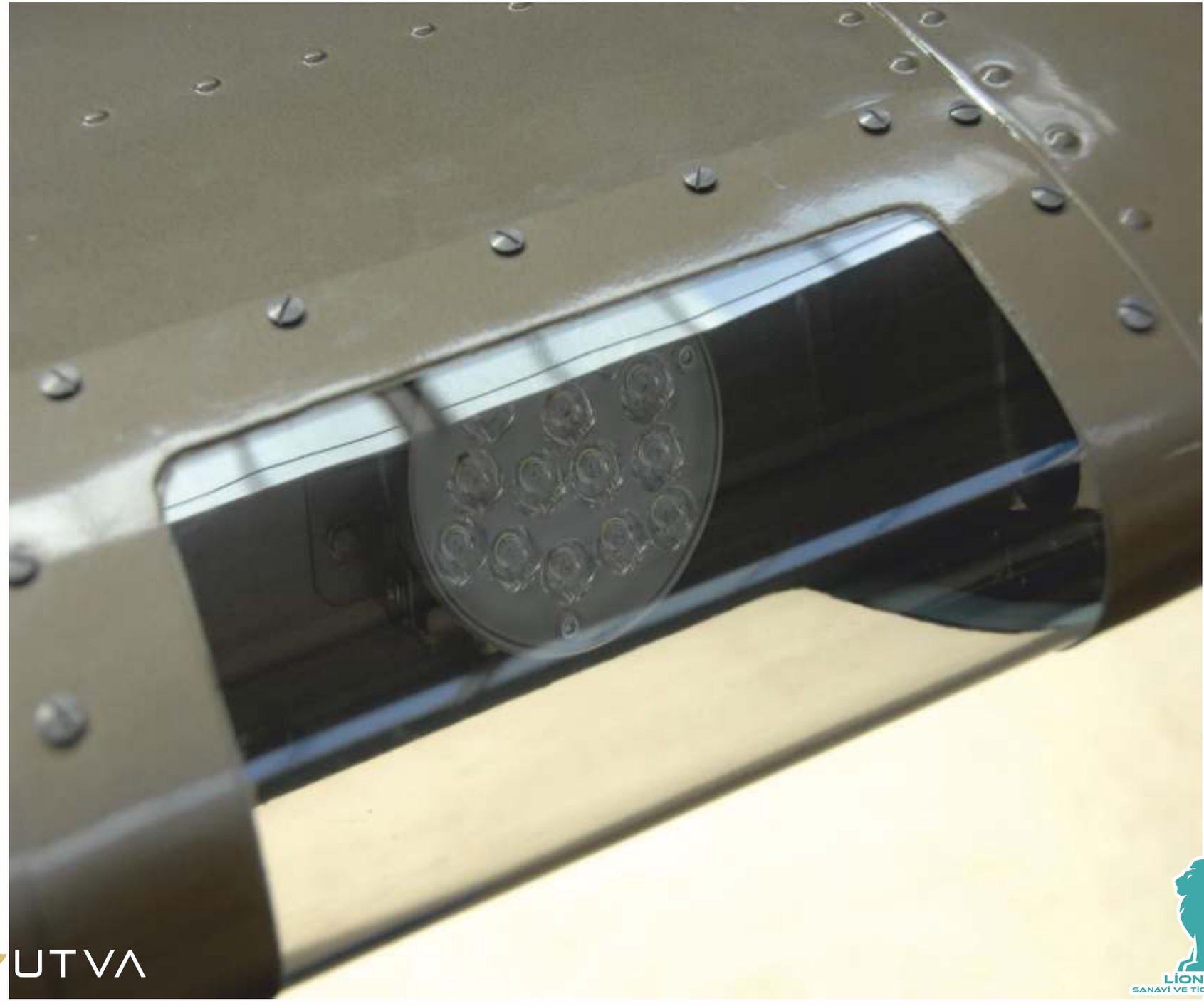

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Note:

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