



UAV complex
LIAZ SkySpotter
151CA

Spraying beyond limits

Description of the complex

DISINFECTION, SPRAYING
AND PRECISION AGRICULTURE

COMPLEX FOR DISINFECTION, SPRAYING AND PRECISION AGRICULTURE

- Surface disinfection of small and large areas
- Smart spraying
- Analysis of the situation
- Working in any field

COMPLEX IS LIAZ UAV SkySpotter 151 PLUS OPTIONAL LOADS

- Spray equipment with optional nozzles
- FPV camera
- Landing camera

METHOD OF USAGE

Because of its properties and perfect control, the helicopter provides a number of advantages for disinfection, spraying and precision agriculture.



FLIGHT MODES

Flight mode selection is an important and substantial step because all tasks and commands are performed independently. The choice of algorithms for UAV control is based on the selected modes. The flight plan is usually completed by the UAV in four basic modes. The most important modes are:

- Fully autonomous mode – automatic mode allows the pilot to intervene in the programmed flight at anytime. This mode includes:
- VTOL (vertical take-off and landing) automatic take-off and landing system
- Flight to point, flight along route, flight around circuit
- Scan the surface in a specific raster
- Planning landing spots in case of flight difficulties

LIAZ FieldSpray system

Capacity of tank	80 l
Spraying width	Up to 12m
Volume application rate	0,5 – 50 l/hectare
Other features	Switchable nozzles during flight
	Electromagnetic flow meter
	LIAZ FieldSpray software with intelligent function

TECHNICAL PARAMETERS OF UAV

Max. speed	35 m/s	Engine unit	Liaz two-stroke engine
Operation speed	0 – 35 m/s		Twin-spark system
Wind resistance	15 m/s		Electronic injection
Flight time	Up to 80min		Gasoline 95
Max. altitude	3 500m ASL	Fuel tank	Up to 70l
Operating temperature	-10 to 40°C	Generator power	2 kW
Control range	Up to 60km	Hover precision	0.3 m
Flight range	Up to 300km		

GCS and SOFTWARE

The **LIAZ PORTABLE GCS** remotely controls the aircraft and provides control and data communication with attached equipment (payloads).

It is equipped with the antenna system used for long-distance communication with UAV. It provides communication for flight control, positioning via GPS.



also provides data transmission. It transmits following data – video from the FPV camera, landing camera or data from payloads.

- Rigid enclosure design
- Water protection IP 65
- Touchscreen 17" display
- Including laptop
- LIAZ field spray software
 - smart spray function
 - mapping and surveying
 - real- time transmission
- Compactible with Android, IOS, Windows
- Datalink up to 10 km range real time video transmission
- Spread spectrum FHSS and DSSS
- Integrated RTK
- Up to 10 parallel drone control
- Joystick for manual control
- Lithium –lion battery (2pcs)
- Rigid foldable stand
- AC/DC adapter 110-240V AC /24V DC
- Over voltage protection
- Reverse polarity protection

MODELÁRNA LIAZ spol. s r.o. is a reliable supplier of unmanned helicopter complexes and a provider of specialized systems. LIAZ provides other specific services (including a whole range of payloads and software) as well as technical tools associated with the use of the helicopter **Skyspotter 151** simplified specialty versions. Extensive technical and manufacturing experience enables LIAZ specialists to introduce innovative technical features during the R&D phase and implement ambitious concepts. With the **LIAZ UAV Skyspotter 151** complex, every customer receives a ready-made solution tailored to his own specific needs.

MODELÁRNA LIAZ spol. s r.o.

Your right choice

MODELÁRNA LIAZ spol. s r.o. is a company engaged in the development and production of unmanned helicopters. This line of business is a continuation of the long tradition of LIAZ vehicle production founded in 1951. It used to have 10 manufacturing plants with 11,000 employees and produced up to 13,600 trucks a year.

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