

Unmanned aerial system ALBATROSS with drone ALBATROSS 2.2. The aerodrome based drone with completely automatic takeoff, en-route flight and landing.

The reinforced fuselage and the gear of Albatross 2.2 are engineered to endure multiple takeoffs and landings during a day, as well as considerable maneuvering accelerations and high speed.

UAV is converted from a manned Pipistrel Sinus aircraft.

The carrier is made of composite material with low RCS.

Takeoff, en-route flight and landing of the drone are fully automatic. Having entered a flight mission into GCU, an operator presses the button to permit takeoff; all next procedures are done automatically.

Diagnostics, flight planning and remote control can be performed using a wireless network connection.

Proprietary Autopilot.

Application

- Video surveillance and monitoring
 - Target drone dropping up to 280 kg (617 lbs)
 - Payload delivery and autonomous transporting
 - Jamming
 - Radio relay
 - Target pointing and designation
 - Flying R&D laboratory (meteorology, hydrology etc.)
- Albatross 2.2 carrier is used to monitor the Earth surface.



OPERATION

Parameters	Value
Operation temperature	-40...+40 (-40 ...104F)
Level surface	Airdrome (prepared runway)
Runway length, not less than	850m (touchdown accuracy-250 m)
Runway width, not less than	25m (touchdown accuracy-10 m)
Takeoff and landing on runway	Fully automatic
Ground support equipment	Not required

GENERAL CHARACTERISTICS

Parameters	Data
Wing span	15 m (49,2 ft)
Length	6.6 m (21,65 ft)
Height	1.7 m (5,57 ft)
Wing area	12,26 m ² (132 ft ²)
Aspect ratio	18.3
Empty weight	370 kg (815 lbs)
Max. takeoff weight	850 kg (1873 lbs)
Fuel tanks capacity	350 l. (92 gal)
Max payload	280 kg (617 lbs)
Parachute	Ballistic

PERFORMANCE

Parameters	Data
Cruising speed (75% power)	200 km/h (124 mi/h)
Operation range	5400 km(3355 mi) with 30 min reserves
Endurance (std tanks)	28 hours
Service ceiling	8,000 m (26246 ft)
Max load factor permitted (x 1,8)	+4 g - 2 g
Fuel consum. at cruis. speed	12,4 l/hour (3,35 gal/h)
ENGINE ROTAX	912IS
Generator	3kW - 12V

