



# Advanced Remote Controlled Aerial System

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# ARCAS 2300



**ARCAS 2300™** is the latest and most innovative product from **Aero Vision**. It is distinguished by its exceptional strength and long flight endurance – unreachable for most of the spraying multirotor unmanned aircraft. The **unprecedented positioning accuracy**, as well as the reliable and industry-proven autopilot, ensures accurate and safe work in bad weather conditions and high altitudes. It is suitable for various spraying tasks as it could be equipped with **different nozzles** to ensure efficiency and high results on the field.

**ARCAS 2300™** has normal flight time of 1 hour and efficient spraying of **20 ha/hour**.



Dimensions: 2300 mm diameter / 1350 mm height



up to 120 kg maximum take- off weight



up to 60 kg empty weight



1 hour normal flight time (depending on the fuel and spraying solution on board)



Hybrid propulsion system with high efficient generator



Autopilot provides different spraying patterns and obstacle avoidance system



Microtek V7-AG (military brand) Autopilot and Ground Control Station



Radar for accurate terrain following and precise positioning over the field



Vertical accuracy of the positioning  $\pm 0.8\text{m}$ , horizontal accuracy  $\pm 2.5\text{m}$  with the usage of GNSS or 2.5 cm with RTK



Automatic flight on route with automatic take- off and landing



From  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$  operational outside air temperature



IP 55 protection and CE certification





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## ARCAS 2300

Main Parameters	
Dimensions:	2300 mm diameter between the engines 1350 mm height
Empty weight:	up to 60 kg
Maximum take-off weight:	up to 120 kg
Maximum flight time:	1 hour
Maximum payload:	60 kg
Maximum speed:	up to 10 m/s
Power supply:	hybrid (gas and oil), 48VDC
Operational outside temperature:	-10°C up to +40°C
Wind:	8 m/s
Maximum operational altitude:	min 2000 m
Protection and certification:	IP55 and CE certification
Capabilities	
Area covered:	20 ha/h
Fuel tank capacity:	8L
Spraying tank capacity:	60 L
Generator:	340 CC / 16 kW
Features	
Ground Control Station:	Microtek V7-AG (military brand)
Flight patterns:	Fully Auto Flight operation with A,B Point operation.
Take- off and landing:	One Button take-off and landing, More safety and time saving
Operation, protection and safety:	Continue Spraying at Breakpoint, Auto Return when finish liquid and low Battery Liquid Detection, Break Point record setting Battery Detection, Low Battery return and Record point setting available Microwave Altitude Radar, Altitude Stabilization, Support Ground-Like Flight Electronic fence function, Log storage function, Landing lock function, No-fly zone function Vibration Protection, GPS Loss Protection, Drug Break Protection Motor Sequence Detection and Direction detection Function
Terrain following:	Yes
Obstacle avoidance:	Yes
Camera:	RGB and night vision
Positioning:	RTK (centimeter level accuracy)