



ARACE ANGEL SPEC SHEET

The ARACE Angel drone is a versatile, next-generation autonomous aerial platform designed to set new standards in drone technology. Developed and manufactured entirely in Hungary within the European Union, the Angel drone stands out for its exceptional features and capabilities:

Compact Design: The Angel drone boasts a compact size, ensuring easy deployment with no assembly required. This streamlined design allows for swift field deployment in less than one minute.

Long Flight Time: With a focus on endurance, the ARACE Angel offers exceptionally long flight times. It can stay airborne for up to 120 minutes, covering more than 80 kilometers in a single flight, setting a new benchmark for uninterrupted flight operations.

All-Weather Operability: Designed with versatility in mind, the Angel drone can operate in a wide range of environmental conditions. It can handle strong winds and a broad temperature range, making it suitable for a variety of missions, including aerial mapping and surveillance, even in adverse weather conditions such as rain.

Easy Storage and Transport: When the mission is complete, the Angel drone can be conveniently folded into a compact size, making storage and transportation effortless. Various options, including backpack solutions, ensure maximum portability.

Advanced Battery Technology: Unlike most commercially available drones that use traditional LiPo batteries, the Angel drone features a special lithium battery. This battery can be recharged 3-4 times more, offering an extended flight duration on a single charge.

Redundancy for Safety: To ensure safe and reliable operation, the ARACE Angel incorporates multiple redundancy features, including dual Inertial Measurement Units (IMUs), dual compasses, and dual GNSS/GPS with multi-constellation support. No pre-flight calibration is required, streamlining pre-flight preparations.

Customization: The ARACE Angel is highly customizable, allowing users to tailor it to their specific requirements. This flexibility makes it ideal for various applications, such as aerial mapping, surveillance, and Search and Rescue (SAR) missions.

Technical Specifications	
Battery Type:	Li-ion
Battery Capacity:	30,000mAh (30Ah)
Voltage:	22.2V
Energy Storage:	666Wh
Diagonal Size (with folded props):	82 cm
Max Flight Time (without payload):	Up to 120 minutes
Max Flight Time (with payload):	90 minutes @ 0.5 kg, 60 minutes @ 1.5 kg
Maximum Operating Altitude:	5,000 m
Wind Resistance at Flight Altitude:	Category 6
Maximum Speed:	22 m/s
Max Payload:	2 kg
Maximum Takeoff Weight (MTOW):	6 kg
Maximum Operating Temperature:	50 degrees Celsius (for battery safety)
Landing and Takeoff:	1x1m flat surface
Bidirectional Telemetry/Video Range:	Up to 30 km

Package Includes
<ul style="list-style-type: none"> · Ready to Fly (RTF) ARACE Angel, built, tuned, and tested. · Custom lightweight EPP foam high-density protective storage and transportation case. · Dual-port battery charger (capable of charging two batteries simultaneously). · Propeller protector foam

The ARACE Angel drone combines innovative design with high-end components, making it an ideal choice for a wide range of professional applications.

Whether your mission involves aerial mapping, surveillance, or other specialized tasks, the ARACE Angel stands ready to deliver exceptional performance, adaptability, and safety.

Additional Options
<ul style="list-style-type: none"> · Camera Options: 24MP, 42MP, and 62MP (full frame), including multispectral cameras with options for dual-band PPK. · ARACE Mini ground control station (GCS) with FPV camera on the Angel for live HD video streaming during flight, eliminating the need for an external computer or tablet. · FLIR-ready (with gimbal installed, but no payload), including ARACE mini-GCS. · High-Def daylight cameras with 10x or 30x optical zoom, and dual-sensor configurations, which include both HD daylight and thermal cameras.