

DRADAR

↘ LiDAR repositioned for center-of-mass balance

↘ LiDAR System for high-precision laser scanning for 3D mapping

⌚ 40 min
✈ 15 km
⚖ 14 kg

↘ Four antennas for 2.4G and 5G

↘ Flight controller features triple IMU redundancy



Sony 19.8 Mpx Exmor CMOS sensor

YellowScan Mapper LiDAR with RGB camera

DRADAR

The **DRADAR UAV** utilizes a fully electric propulsion system driven by two high-capacity solid-state batteries to ensure efficient, long-autonomy operations. Its payload combines high-resolution LiDAR with an RGB camera, delivering precise 3D terrain models and enhanced visual context in real-time. This multimodal approach makes DRADAR the ideal solution for complex topographic mapping and obstacle detection.

Flight characteristics

MTOW	14 kg
Flight autonomy	Up to 40 min
Range	Up to 15 km
Frequency	2.4 and 5 Ghz
Mass without batteries	10.2 kg
Mass with batteries	14.3 kg
Rescue/ emergency	2 x anti-drowning systems

Aircraft type and airframe

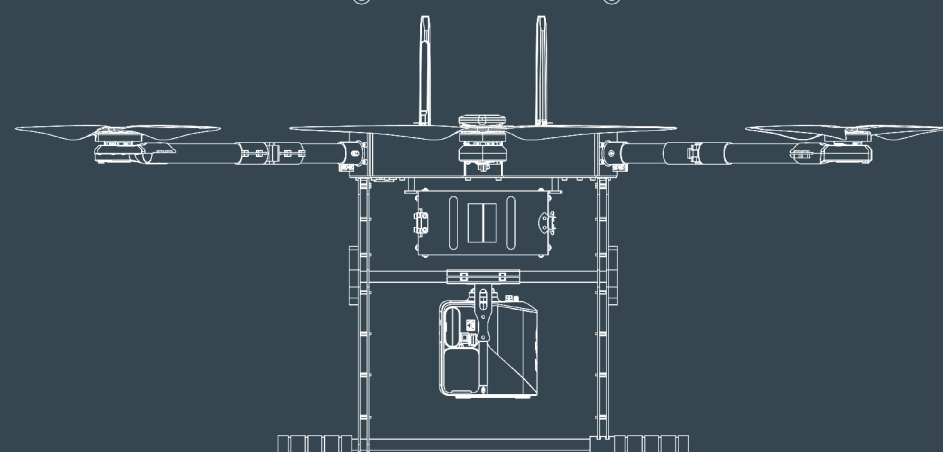
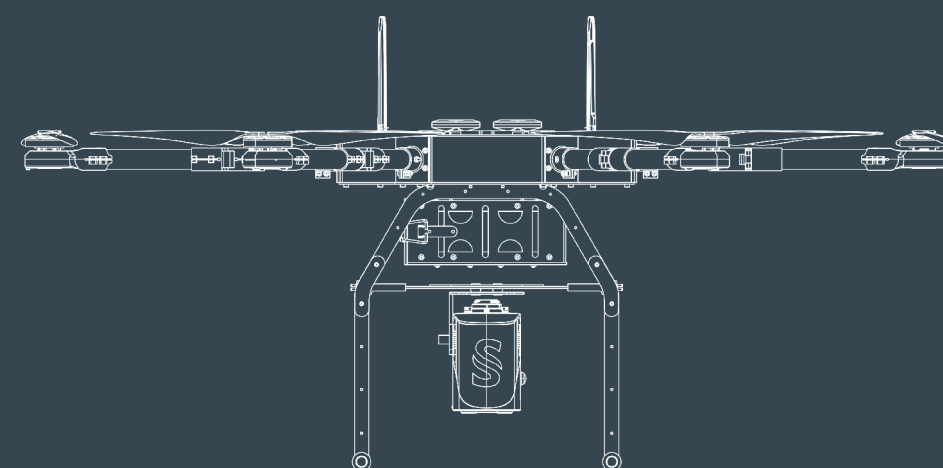
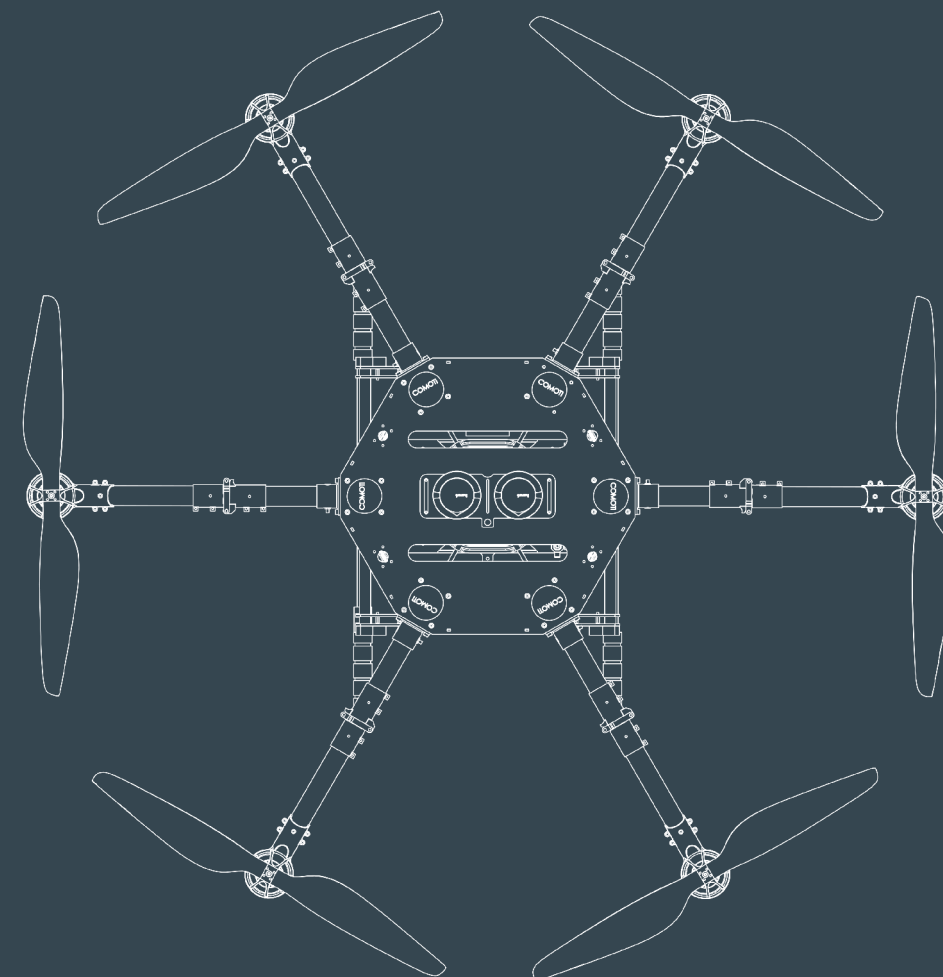
Motor-to-Motor diameter	Ø1200 mm
Height	480 mm
UAV configuration	Multi-rotor
Number of motors	6
Propeller dimension	Ø 22.2 in
Other	Modular assembly

Payload

Yellow Scan Mapper
• Wavelength: 905 nm
• Scanner field of view: 81.7°
• Autonomy: 1 hour
• Operating temperature: -20°C to +40°C

RGB video camera for YellowScan Mapper

• Sensor: APS-C type exmor CMOS
• Resolution: 19.8 Mpx
• Lens: Sony SEL-16F28 E-mount



UNMANNED AIRCRAFT SYSTEMS

DRADAR



Command is maintained by the UniRC 7 series, featuring an ultra-bright 7-inch, 1600-nit touchscreen that remains perfectly readable even in direct sunlight. This advanced ground unit offers an exceptional transmission range of up to 40 km, ensuring stable connectivity for long-distance operations. Powered by Android 13 and a high-capacity battery, it delivers up to 11 hours of continuous operation in a rugged, IP54-rated frame.

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