

## **RICOPTER®**

# Remotely Piloted Aircraft System for Multi-Purpose Applications

Robust and reliable unmanned airborne platform for carrying various types of sensors, e.g. laser scanners, photogrammetric cameras, thermal-infrared cameras, hyper-spectral cameras, magnetometers, radiation sensors, gas leak detectors.



#### **RiCOPTER Aircraft Technical Data**

#### **Specifications and Performance:**

Main Dimensions ready to fly arms folded for transportation & storage	1,920 mm x 1,820 mm x 470 mm 624 mm x 986 mm x 470 mm
MTOM (Maximum Take-Off Mass)	25 kg
Max. Sensor Load	up to 6.5 kg
Empty Weight	11 kg
Max. tested and permitted Operating Altitude AMSL 1)	up to 3,000 m (10,000 ft) <sup>2) 3) 4)</sup> (under ISA <sup>5)</sup> conditions)
Max. Flight Endurance	up to 30 min <sup>6)</sup>
Cruise Speed	typ. 6 - 8 m/sec
Take-off / Landing	VTOL (Vertical Take-off and Landing)
RiCOPTER Transportation Case dimensions empty weight	1,220 mm x 810 mm x 540 mm approx. 20 kg
RICOPTER Ground Control Unit weight	approx. 1.2 kg

- 2) depending on rotor blade configuration 3) For flight altitude above ground level, operational limits for civil
- unmanned aircraft according to national regulations have to be observed.
  4) higher altitude possible with reduced performance
  5) ISA International Standard Atmosphere

- 6) with 6.5 kg sensor load

#### **Limitations:**

Max. Ground Speed	14 m/sec <sup>8)</sup>
Max. Tolerable Wind Speed	8 m/sec
Max. Climb Rate   Max. Descent Rate	5 m/sec   2 m/sec <sup>8)</sup>

8) electronically limited

#### Hot / Cold Weather Operation:

Min. Operating Temperature	-5°C OAT (Outside Air Temperature)
Max. Operating Temperature	+40°C OAT (Outside Air Temperature)

### Optional RiCOPTER Components / Accessories

#### **RICOPTER Ground Control Unit**

The Ground Control Unit comes with accoring tripod mount.

- integrated datalink interface (433, 868 or 915 MHz)
- integrated receiver of video signal for FPV camera (5.8 GHz)
- powered via USB connection
- rugged PC for flight planning and configuration of the mission (optional)

#### **RICOPTER Charging Control Unit**

- professional PELI-Carrying-Case for easy and safe transportation
- equipped with all required connectors and cables
- Power Supply: 100 240 VAC / max. 1.200 Watt
- 2 charging slots for max. 10 A each (2 Charging Control Units are recommended)
- charging time: approx. 1 hour for 1 set (4 batteries; 2 Charging Control Units)

Further accessories available (more information on request).

The RiCOPTER is a high performance unmanned multi-rotor aircraft, designed & manufactured by RIEGL Laser Measurement Systems GmbH. It is distributed, supported and serviced by RiCOPTER UAV GmbH, also a RIEGL company.

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Remote Control Graupner MC32



easy to carry with integrated handle



Transportation Case: foldable arms facilitate easy transportation and storage



