



UAS LUNA

AIR RECONNAISSANCE AND SURVEILLANCE SYSTEM

TAKING RESPONSIBILITY IN A CHANGING WORLD





Ground control station

IN ACTION: TRIED AND TESTED. IN FOCUS: THE FUTURE.

The LUNA drone system for uncrewed aerial reconnaissance is a sophisticated solution for real-time surveillance, detection and tracking.

It has proven itself in missions around the globe thanks to a flight time of 6 hours (optionally 8) and a range of >100 km, which can be increased by SatCom.

The drone can be launched via catapult in almost any terrain, offers numerous payload options and is a cost-effective, reliable choice for both military and civilian applications.

QUICKLY READY FOR USE AT ANY TIME.

With its robust fiberglass composite construction and 40 kg take-off weight, the high-performance motor glider can be made ready for take-off by just a few personnel and silently launched into the air via the collapsible self-propelled catapult. Thanks to extensive automation, operation is extremely simple and requires no previous flying experience. The compact components of the ground station fit into cabins or small vehicles – which enables rapid relocation if required, e.g. by transport helicopter.



LUNA – ready for action

ALWAYS RELIABLE IN THE AIR

Powered by a low-noise two-stroke twin-cylinder fuel-injected engine, the LUNA drone reaches a service ceiling of up to 5,000 metres. It impresses with reliable flight characteristics in every season and even in adverse weather conditions. A special feature is the driveless gliding flight with subsequent restarting of the engine. The drone can complete pre-programmed flight routes autonomously without signals from the ground station, alternatively it can be controlled remotely – also with the help of a

relay drone, if for example, the area of operation is in radio shadow. The drone lands autonomously via differential GPS in the net or via parachute.

WELL EQUIPPED FOR THE FUTURE

Equipped with first-class optics, state of the art optics for pilot view and ground view, the drone transmits real-time images

and data. Additional payloads can be attached to the standard swivelling payload platform as required and for any purpose – whether thermal imaging, near-IR zoom cameras, SAR, EW payloads or numerous other sensor systems.

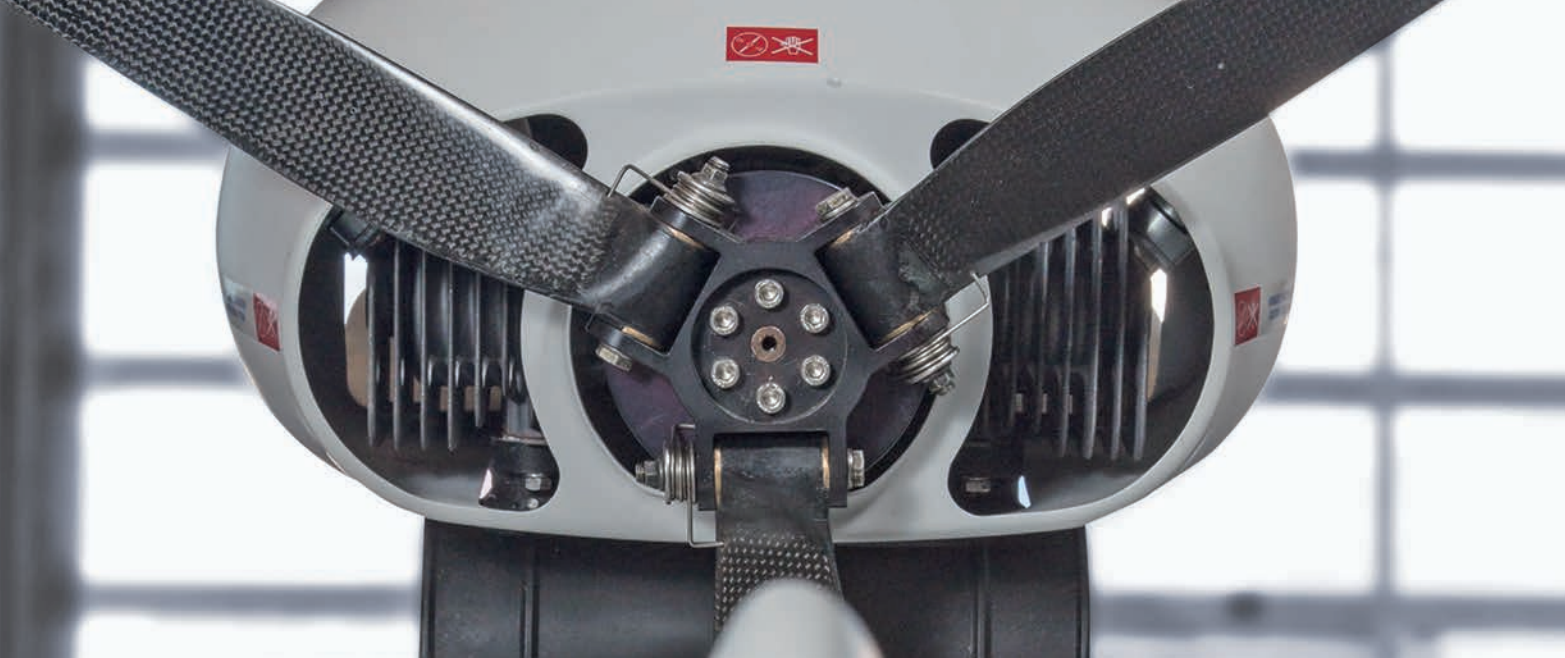
The LUNA system is already equipped for the latest developments in aerial reconnaissance – and thus a reliable investment in the future.



Net landing



Efficient and flexible: the LUNA drone can be equipped with different payloads



TECHNICAL DATA

Wingspan	4.17 m
Length	2.38 m
Height	0.87 m
Take-off weight	40 kg
Drive	Two-cylinder two-stroke injection engine, battery-buffered generator for power supply
Flight duration	>6 (optionally 8) hours, depending on payload and application profile
Flight performance	Typical reconnaissance speed 70 km/h (37 KIAS), V_{max} 130 km/h, service ceiling >5000 m ISA altitude
Range	>100 km

Rheinmetall Technical Publications GmbH

Grube 29

82377 Penzberg

Germany

Phone: +49885692250

rtp@rheinmetall.com

www.rheinmetall.com