



SCCS
THE SURVEY EQUIPMENT COMPANY

MULTIROTOR UAV

Surveying, reconnaissance, agriculture and logistics



Today MULTIROTOR is one of the leading manufacturers of advanced UAV systems. In the field of geodesy the MULTIROTOR G4 has become one of the most popular geo-copters, with more than 100 units sold within a period of just one year – with the figure increasing rapidly!

MULTIROTOR by service-drone.de GmbH

Building professional multi-copter systems, marketing them internationally and offering them as an out-of-the-box solution was the idea of Graduate Engineer Oliver Knittel and Volker Rosenblatt. At a very early stage the founders of the company service-drone.de GmbH realised the enormous potential of flying UAV robots and focused on developing integrated and scalable system solutions for media, industry, defense, security and geodesy in particular. Service-drone was therefore one of the world's first providers of complete "ready-to-fly" systems, including user training, maintenance and service.

Since then the company has been growing rapidly. In the first business year of 2011, the team – which was still small – generated a turnover of €1 million. In 2012, the turnover was doubled, and the pre-tax profits even quadrupled. In 2013, major investments were made in the development of the acquired brand name of MULTIROTOR and our own MULTIROTOR G4 flying hardware and software: A worthwhile investment that from then on made our products freely scalable for any application and which was awarded with the 2014 ARTIE Innovation Award 2014.

Why MULTIROTOR

Our systems are perfectly synchronized and have been developed for professional use and challenging tasks. Customers have a direct influence on our products and profit from our reliable service, consulting and training. Multirotor meets all requirements demanded today of operating safety and impresses with high quality service, which clearly marks us off from all competing products and makes Multirotor the market leader. The advanced flight electronics, for instance, keep our drones in the air even despite adverse weather conditions. Our customers receive a personalized and immediately usable product package.

Proven technology

This is the reason why demanding customers choose our products. Years of hard- and software development have had an influence on the newest generation of MULTIROTOR Flight-Control. After over 400 tested drones, our development department can offer a device concept, unique and superior to the rest of the market. Its intelligent functions, its security and intuitive operation makes the drone today's most efficient camera drone. Since the introduction of our MULTIROTOR G4 Technology, our customers have approved our products 100% operating safety - without exception!

The MULTIROTOR Family

Our competence becomes visible in the production and distribution of highly professional drones for the B2B market. The product strategy is founded on a highly scalable and modular model range, which leaves no desires unfulfilled. The directive of Multirotor is at the same time our high demand: there is no universal drone. Each and every of our demanding customers has individual demands. And our standard is their realization. Thus, the Multirotor G4 Surveying Robot is one of our best solutions for demanding tasks. Besides the long flight time for surveying areas, the modular construction and maximum mobility and transportability, the product captivates with a high flight dynamic under all weather conditions. The easy to use Flight Planning Software is certainly on board as well. Multirotor offers series products as well as individualized solutions for your project.



G4 Skycrane

Carries LIDAR and other heavyweights like 6k cinema cameras or special camera and sensor solutions safely into the air. Our UAV for a maximum payload of up to 6.5 kg. Optional fully redundant design.



G4 Recon One

Fully scalable hovering platform with extra long flight time for surveillance, reconnaissance and surveying. The system can be equipped with RGB-zoom cameras, infrared and thermal imaging sensors.



G4 Surveying-Robot

Worldwide hundredfold proven solution for surveying which is also well suited for reconnaissance or agriculture because of the possible equipping with infrared and multispectral cameras.



G4 Blackbird

The entry-level Quadrocopter which combines small size with long flight time, flexibility, professional flight control and exceptional cost-benefit ratio.



G4 Eagle

Our most versatile Multicopter which can be equipped according to the field of use with the right camera equipment, gripping device or sensor.



Made in Germany

Our flight electronic, developed and produced in Germany, is a result of our customers' high demand and not least because of our developers' high ambition to build the perfect multicopter. Berlin offers our distribution and administration department perfect conditions. In our location in Buchholz near Hamburg 20 highly qualified specialists currently produce our products.



MULTIROTOR G4 Firebird

- Flight time up to 40 minutes
- Hand crafted carbon monoframe
- Fully integrated solution
- Water-resistant
- Small and lightweight
- Fully scalable system with reliable Flight Control made in Germany
- Transmission of images to the control room

The G4 Firebird has been newly developed from the ground up. It is a complete solution for reconnaissance and surveillance. In addition to the proven, very high wind stability of MULTIROTOR multicopters, the G4 Firebird is now able to stand up to even worse weather conditions due to the new water resistant housing. You can also operate the drone in case of rainfall. The UAV system is equipped with an RGB and a thermal imaging camera making it applicable to a wide variety of applications. Due to the extremely short set-up time and its convenient size, the system can very quickly be transported and used by police or security forces and the military in the respective location.



RTK Option

Features:

- GPS and GLONASS Support
- 10 Hz output rate
- Positional accuracy 6 mm horizontal, 10 mm vertical
- Correction data either from the Internet or with its own base station on site
- The RTK system is on board not only to carry out measurements, but our Flight Control also uses the more accurate RTK data for navigation.

The benefits for you in everyday use:

- Accurate measurement flights are possible without survey control points on the ground
- Significantly more precise positioning (vertical and horizontal) of the drone
- Flight paths are maintained more accurately
- Automatic landing on the charging pad (Skysense) is possible



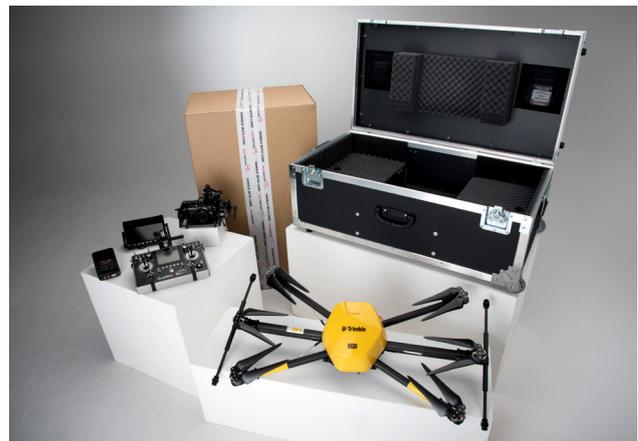
MULTIROTOR OEM-platform

OEM-series production

The development of a safe and functional UAV system with a flight permission in different countries is turning out to be increasingly demanding and cost-intensive. The development of the unique MULTIROTOR hard- and software for all core components of the flying robot as well as the autonomous flight planning and control dates back to early 2008. Since that time we have been optimising and improving our MULTIROTOR aircrafts towards complete solutions for special applications. Just a few manufacturers have access to that much practical experience and that many sold premium devices worldwide. MULTIROTOR UAV already meet the highest safety requirements, are particularly easy to use and offer the best possibilities for individualisation due to their own technology.

Your own product or series production

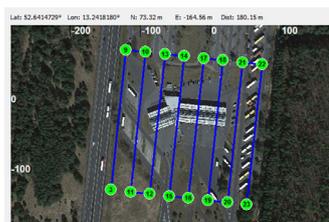
With our innovative solutions "Made in Germany" we play an active role in shaping the markets of today and



tomorrow and set new standards for copter flying. As an OEM-partner we offer you our exemplary MULTIROTOR flying robots as a platform for your own product or series production of individually manufactured aircrafts, with your own label, for medium to large quantities. Profit from our experience and contact us. Together we realise your application and your premium product.



Surveying



Surveying areas is one of the main disciplines of the Multirotor products. The drones accomplish this task, if desired, completely automatically, including take-off and landing. The flight route can already be planned in the office. In the operating area the multicopter, equipped with a camera, follows the predetermined route and takes photos of relevant locations automatically. After the surveying mission is accomplished, the software puts together the taken photos to a high-definition and detailed shot. The highly-developed surveying technique enables an accuracy of up to 1mm exactly ground resolution and up to 6mm measuring accuracy. Digital elevation models (DGM) and 3D models can be created as well. By using the obtained data, simple maps can be created. The long flight time, the low susceptibility to wind and the reliable flying of the programmed route via GPS in very big areas are considerable advantages many of our customers appreciate. Also the easy transport: drones, remote control, batteries, chargers and accessories can be safely stored in the transport box optionally supplied, so that the system fits into every trunk, ready to be used.

High-Tech by MULTIROTOR

MULTIROTOR is a pioneer in the UAV market. Long before unmanned aerial vehicles (UAV) were commonly known and recognized, by public as well as industry, MULTIROTOR has developed the first micro-multicopter for future-oriented B2B applications in 2008.

MULTIROTOR has been the pioneer of the leading technology trends over the last years. Our company can present the biggest experience and customer base in the market of professional multicopter drones for commercial application. We embrace our leading role in technology and as the market leader. Multirotor is conscious of its role as the world market leader and its great influence on the branch.

The fast growing company produces series of individual flight drones as end-to-end solutions for an increasing number of astonishing applications. The production and assembly work of all key components, such as hard- and software, are 'made in Germany' and of the highest quality. We are producing systems which even meet the security standards oriented towards the ones of civil aviation. Our products can be operated easily and

intuitively. The wind stability is unique. The high scalability enables an almost unlimited range of applications and operations.



Each G4 MULTIROTOR drone is delivered with the newest software and is registered online individually on our customers' names, so that it is easy to receive software updates easily and quickly. All registered customers are informed about software updates automatically and hence, always fly with the newest software release. In 2014, the newly developed, fourth generation of the flight control G4 was awarded with the 'ARTIE innovation award for extraordinary, innovative solutions'.

Accessories for more versatility

For tough daily use, we offer for our drones specially adapted Hardcases which facilitate the transport and increase the lifetime of your Multicopter.

In order to increase the operating time of your UAV systems, we offer additional batteries. When used in cold climate the use of special heated cases allows to optimize the flight time.

MULTIROTOR provides professional training and coaching, which is a prerequisite for perfect and safe drone flights. Either with us near Hamburg, or onsite.

Depending on the capacity of the respective Copter we offer a versatile range of camera options to offer the best combination for your operation. RGB, RGB-zoom, infrared, multispectral and thermal imaging cameras and other sensors are possible.



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