

Application examples



Archaeological documentation



Real estate photos



Maintenance and inspection work



Animal, action, and other shots from unusual angles

Overview

MikroKopters are universal aerial platforms. Because the **MikroKopter** is both easy to use and highly reliable, it is extremely versatile.

Equipped with GPS, compass, altitude control, telemetry, etc., the **MikroKopter** can automatically hold the current altitude and position, fly back automatically to the start position, show telemetry data such as power consumption, flight time, altitude, low voltage warning, etc. at the transmitter station, automatically fly to programmed waypoints, and much more.

The system is used by aerial photographers, film crews, journalists, archaeologists, estate agents, universities, and amateur pilots.

Visit www.MikroKopter.de to view interesting photos and videos made by users, as well as a wide range of instructions, help and tips for **MikroKopter** users.

HiSystems GmbH has been developing and distributing multicopter hardware and software since 2008. We make all electronic assemblies and assemble and test all **MikroKopters** here in Germany.



HiSystems GmbH - Flachsmeerstrasse 2
26802 Moormerland - Germany
www.HiSystems.de - info@HiSystems.de



MikroKopter.de



Panoramic view of Chicago - made possible by the MikroKopter
Photo : perspectiveAerials

Functions

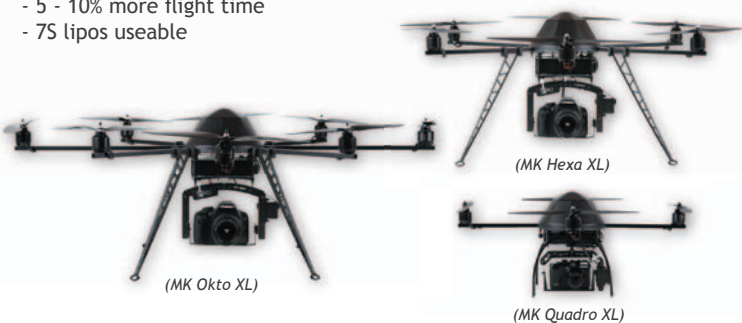
The **MikroKopter's** comprehensive feature set enables a wide range of applications, including cinema and TV productions, maintenance and inspection work, aerial photography or ground surveys.

The **MikroKopter** offers the following functions and options:

- Available as a QuadroKopter, HexaKopter or OktoKopter
- Easy, safe control
- Automatic stabilisation
- Automatic altitude control
- Automatic position holding
- Automatic return to starting position
- Nondirectional flying (CareFree)
- Automatic return when the signal is lost or the transmitter fails
- Autom. compensation of the inclination of a connected camera mount
- Redundancy in case of motor failure (OktoKopter only)
- Outputs for connecting extensions
- Telemetry data transmission to the remote control and/or PC
- GPS-System incl. waypoint flights
- Flight data is stored on an SD card
- Range: 1000m (line of sight)
- Altitude: 350m
- Payload: up to 2.5 kg
- Flight time: up to 40 minutes (depending on payload & lipo capacity)

More Power because of BL Ctrl. V3.0 :

- Active freewheeling -> less power loss
- 5 - 10% more flight time
- 7S lipos useable



Navigation

One of the key features of the MikroKopter is waypoint flying. Using the GPS system, the **MikroKopter** can automatically fly toward waypoints (WPs).

These waypoints or points of interest (POI) can be created on a map as a grid, circle or manually.

This is quick and easy using the on-screen display (OSD) of the free **MikroKopter** tool.

If you have an Android tablet, you can even set waypoints or POIs using the **MikroKopter** tablet tool. Both programs allow the flight and the exact position of the copter to be tracked.

You can even display copter information such as telemetry data on your Smartphone using freely available add-on programs.

Using the **RangeExtender**, you can increase the range of your copter when using your laptop, tablet or mobile phone.



Waypoint control using the MK-Tool



The MikroKopter Tablet Tool



Telemetry data on the mobile phone



The RangeExtender

Photo & Video

The transmitter allows you to access all **MikroKopter** features almost intuitively. It also offers both visual and acoustic output of key flight information. The camera can also be operated using the transmitter to take photos or use video or zoom features.

The live camera image is transmitted to a monitor/video goggles via a radio connection, allowing the pilot to monitor the current camera view at any time.

You can attach the **monitor** to a tripod or to the **transmitter**.

You can use the transmitter station to set the camera direction according to your needs.

Alternatively, thermal imaging cameras, video cameras, etc. can also be mounted.

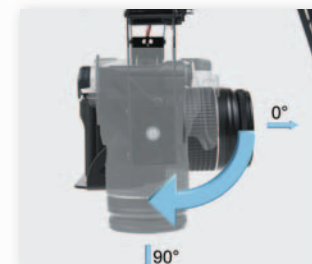
The padded, sturdy and spacious **KopterCase** is available for transporting your Kopter and its accessories wherever you need it. You can buy a KopterCase directly from us.



Transmitter with telemetry data display



MikroKopter Pilot with Video Goggles



Swiveling camera mount



KopterCase for the MK-OktoXL