Application examples

Expeditions

Real estate photos

Maintenance and inspection work

Foto : Rudi Schneeberger

Animal, action, and other shots from unusual angles

Foto : Benny Rebel

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.
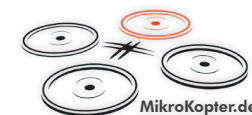

Ein OktoKopter XL im Einsatz

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26802 Moormerland – Germany
www.HiSystems.de – info@HiSystems.de

Now with **6S** POWER!

Englisch (English)

MikroKopter.de

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 Quadro-, Hexa- and OktoKopter
- Simple and safe control of the Kopter
- Automatic stabilization
- Automatic height control
- Automatic position hold
- Automatic backflight to the start position
- Free direction flight (CareFree)
- Automatic return upon receipt or transmission failure
- Automatic tilt compensation of the camera mount
- Redundancy during motor failure (OktoKopter only!)
- Outputs to connect extensions
- Telemetry data transmission to the transmitter and/or PC
- GPS-System incl. WayPoint Flight
- Saves the flight data to a SD-card
- Distance: 1000 meter (visibility)
- Height: up to 5000 meter
- Payload: up to 4kg
- Flight time: up to 40 min. (depending on payload & lipo capacity)
- Total weight: <5kg (incl. 1x LiPo and standard (video-) camera)
- Active free-running -> less power loss
- LiPos usuable up to 7S

ARF OktoXL 6S12

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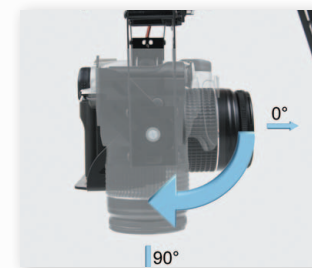
The padded, sturdy and spacious **KopterCase** is available for transporting your Kopter and its accessories wherever you need it. You can buy a KopterCase directly from us.

Transmitter with telemetry data display

MikroKoper Pilot with Video Goggles

Swiveling camera mount

KopterCase for the MK-OktoXL