

LET'S FLY!



AIBOTIX
INTELLIGENT AUTONOMOUS VEHICLES

AERIAL INDUSTRIAL INSPECTION



- when it has to be **right**





THE AIBOT X6 AN INDISPENSABLE WORK TOOL

The Aibot X6 is an autonomously flying hexacopter, specifically designed for demanding tasks in industrial inspection and surveying. Equipped with a high level of artificial intelligence, this flying robot reaches virtually any target and can independently create high resolution images and videos.

YOU SAVE TIME AND COSTS

The Aibot X6 fulfills many inspection tasks and replaces costly, time-consuming processes involving helicopters, industrial climbers, and cherry pickers. The Aibot X6 also has a clear advantage in dangerous inspection tasks, especially because hazards such as high-voltage power lines and wind turbines do not have to be shut down during the flight.

Applications include:

- Inspection of overhead power lines and transmission towers
- Inspection of wind turbines
- Inspection of photovoltaic systems
- Inspection of bridges, dams, and buildings
- Inspection of oil and gas pipelines
- Inspection of railroad tracks
- Thermal imaging analysis to detect defects in buildings, industrial facilities, or solar panels
- Aerial images of construction sites for monitoring and documentation purposes
- Analysis of sites as basis for development plans

INTELLIGENT, SAFE AND ACCURATE

The highly intelligent Aibot X6 can fly autonomously along pre-defined flight routes. Its intelligent sensor technology ensures that it automatically maintains a set distance from the object being inspected so that collisions and operator errors can be avoided. Image, position, and other data are recorded during the flight and can later be analyzed completely and accurately.

FULLY INTEGRATED SYSTEMS AND WORKFLOWS FROM A SINGLE SOURCE

Aibotix works closely with other Hexagon brands such as Leica Geosystems, as well as with software providers Intergraph and Tridicon. The result is development of fully integrated systems and workflows for data generation and processing.

ADVANTAGES OF UTILIZING THE AIBOT X6

- You can go places that conventional equipment cannot reach.
- You increase safety for your inspection staff.
- You save time and costs.
- You increase inspection quality with high resolution, precise shots from ideal perspectives.
- You benefit from the high level of expertise, the synergies, and the innovation potential of Hexagon brands.
- You receive a premium product made in Germany.





THE AIBOT X6 AT A GLANCE

- Robust, ultra-lightweight carbon housing with propeller and collision protection
- High flight stability and stable GPS-positioning for photo and video shots
- Manual, semi-autonomous (flight assistant), and fully automatic flight modes, including auto-start and landing
- Low crash risk, even if one motor fails
- No runway needed
- Easy to operate
- Automatic distance control
- Horizontal and vertical movements
- Flexible adaptation of the camera during the flight
- Plug-and-play system for many different sensors
- Vertical (nadir) and horizontal (oblique) photography
- Intuitive camera mount with automatic pitch and roll compensation provides steady and blur-free pictures and videos
- Intuitive, proprietary software for programming flight paths
- Specially developed tool to geo-reference the images

THE AIBOT X6 INSPIRES

"In the Aibot X6, we see an innovative product with major potential benefits for our business segment. With it, we not only significantly improve inspection of overhead power lines, we also take a huge step forward in terms of securing the civil power supply."

Paul Zachoval, Austrian Power Grid AG (APG), Austria

"The copter is small and can easily fly around areas that are otherwise difficult to access, like zones located high above water or areas inside pylons."

Martin Boldt, Hamburg Port Authority (HPA), Germany

"The hexacopter images show cable damage in great detail and enable us to make decisions quickly on the appropriate actions."

Maik Neuser, Westnetz GmbH, Germany

"Using an Aibot X6 UAV for windmill inspections gives a competitive edge by increasing inspection speed and quality while lowering inspection costs by reducing the human effort required."

Frank Dumeier, WEB Wind-energie AG, Austria

Get more information on
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