

PodCopter



Tethered drone as a sensor carrier platform

The PodCopter uses image processing technology for permanent autonomous control in the field of agriculture. It flies in a predetermined position to the vehicle without time limitation.

This allows an **evaluation** of versatile **sensors in real-time**.

- Automatic take-off, flight and landing
- Automatic positioning to the vehicle while driving
- 100% autonomously flying system
- One-time predetermination of the position by the vehicle driver depending on the application

Gefördert durch:



Bundesministerium
für Wirtschaft
und Energie

aufgrund eines Beschlusses
des Deutschen Bundestages



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Technical data and fields of application



Technical data:

- Dimensions: 105 x 105 x 50 cm
- Weight, material: 5 kg carbon fibre monocoque
- Load weight sensors: 1,5 kg
- Cable length: standard = 15m (greater lengths possible)
- Operational speed: up to 20 km/h

Fields of application:

- Universally usable for agricultural vehicles
- Multiple application possibilities based on the integration of versatile sensors with evaluation in real-time:
 - **Wild animal recognition** / thermal imaging camera + RGB camera
 - **cutting edges recognition, obstacle recognition** / 3D technology
 - **green recognition, weed analysis** / spectral measurement

insensiv GmbH

Auf dem Esch 28

D - 33619 Bielefeld

Tel: +49 (0) 521 - 32 99 47-0

Fax: +49 (0) 521 - 32 99 47-99

info@insensiv.de

www.insensiv.de