

# microdrone md 4-200



The md4-200 system includes a whole package of software.

With the flight simulation the pilot can do a training of the motoric for commanding the drone.

The mdCockpit is a windows program for retrieving data at flight time like operating / flight time, GPS position and accuracy, battery state, height, distance to POF (point off first fix), speed, temperature, direction (compass), 3D recording of the flight path, charging of the motors and much more.

Because of our audio response interface there is no need to look at a display during flight. A nice female voice gives you hints and warnings like "warning - low battery", "flight time 10 minutes", or "GPS ok".

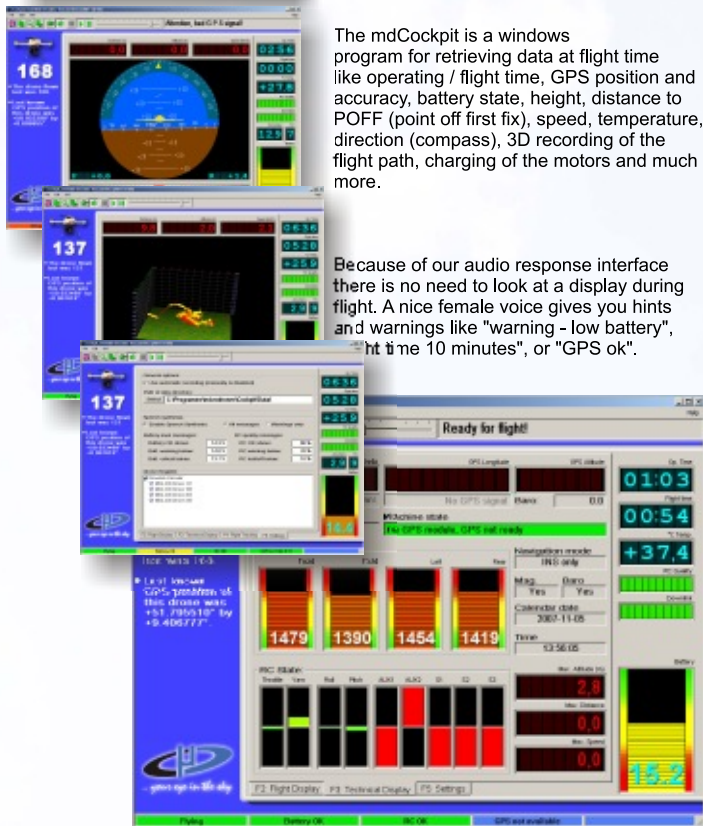


The SD\_Player\_cv is a windows program for analyzing post flight data in real-time.

With this tool you can access real-time flight data of the last 16 flights which are stored on the micro SD card of the drone.



MD\_Dialog is a windows program for diagnostics and firmware updates.



## data

weight	< 900 g
payload capacity	< 200 g
size	< 70 cm (rotor axis/rotor axis)
flight duration	max. 20 min (depends on payload)
operating distance	max. 500 m
mobility	detachable
supply	4 cell Lipo 2300 mAh 14.8 V
humidity	<80%
temperature	0-40°C
wind	sharp pictures -4m/s
altitude	<150m
start level	<1500 above sea level

## sensors

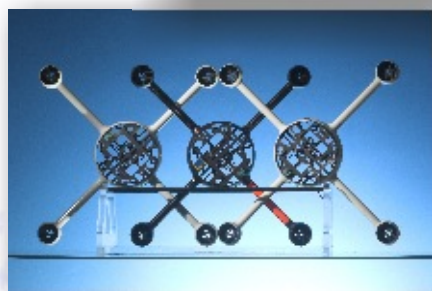
color videocam	470 Lines
b/w Dawn	0,0003 Lux
digital Still Photography	10 Mega Pixel

**microdrones GmbH**



*.. your eye in the sky*

## microdrone md 4-200



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Our microdrones are miniaturized VTOL-aircrafts (VTOL = Vertical Take Off and Landing). They can operate remote controlled and autonomously with GPS waypoint navigation.

Thanks to our unique AAHRS (AAHRS = Attitude and Altitude and Heading Reference System) even unexperienced people are able to fly the machines within one hour!

With high efficient propulsions the noise emission is very low (< 65 dBA [hoverpoint, 3 meter distance])  
 With optional videoglasses the operating range can be far out of direct sight (up to 500 meters / 1500 feet).  
 Depending on payload and temperature the flight duration is up to 20 min.

**Users:**

- Photographers
- Journalists
- TV
- Police
- Army
- Firebrigade
- Security companies
- Enviromental protection
- Weather service

**Possible applications are:**

- Documentation
- Coordination
- Observation
- Communication
- (and everything you can imagine...)

**UAV**

*Unmanned Aerial Vehicles*

**VTOL**

*Vertical Take-Off-Landing*



The optional videoglasses allow flights behind the line of sight.

**microdrone md 4-200**

The microdrone is a micro UAV developed for tasks like coordination, documentation, exploration, measurement and observation.

A modular payload concept allows the drone to be individually equipped for different tasks.



**Options**

- High-resolution digital photography



- Daylight color video sensor



- Dawn b/w video sensor Super High sensitivity (Near IR spectrum)



- Bolometer, Radio relay station, Measuring instruments

**Ground station for md 4-200**

The microdrone set contains a strong protector equipment case that's water- and airtight, constructed of light-weight structural resin with neoprene o-ring seal and exclusive purge valve.

It includes locking flanges, massive multiple latches and molded fold-down handles so that it is the optimum for every environment.

The video receiver case contains the 4x diversity video receiver, optional directional antenna, framegrabber card, 230 volt for stationary use and 12 Volt current supply for the use in cars and also a rechargeable battery solution for outdoor use.

With the optional notebook you can observe and record every mission and duplicate the data to CD or DVD.

