

# HeliEye

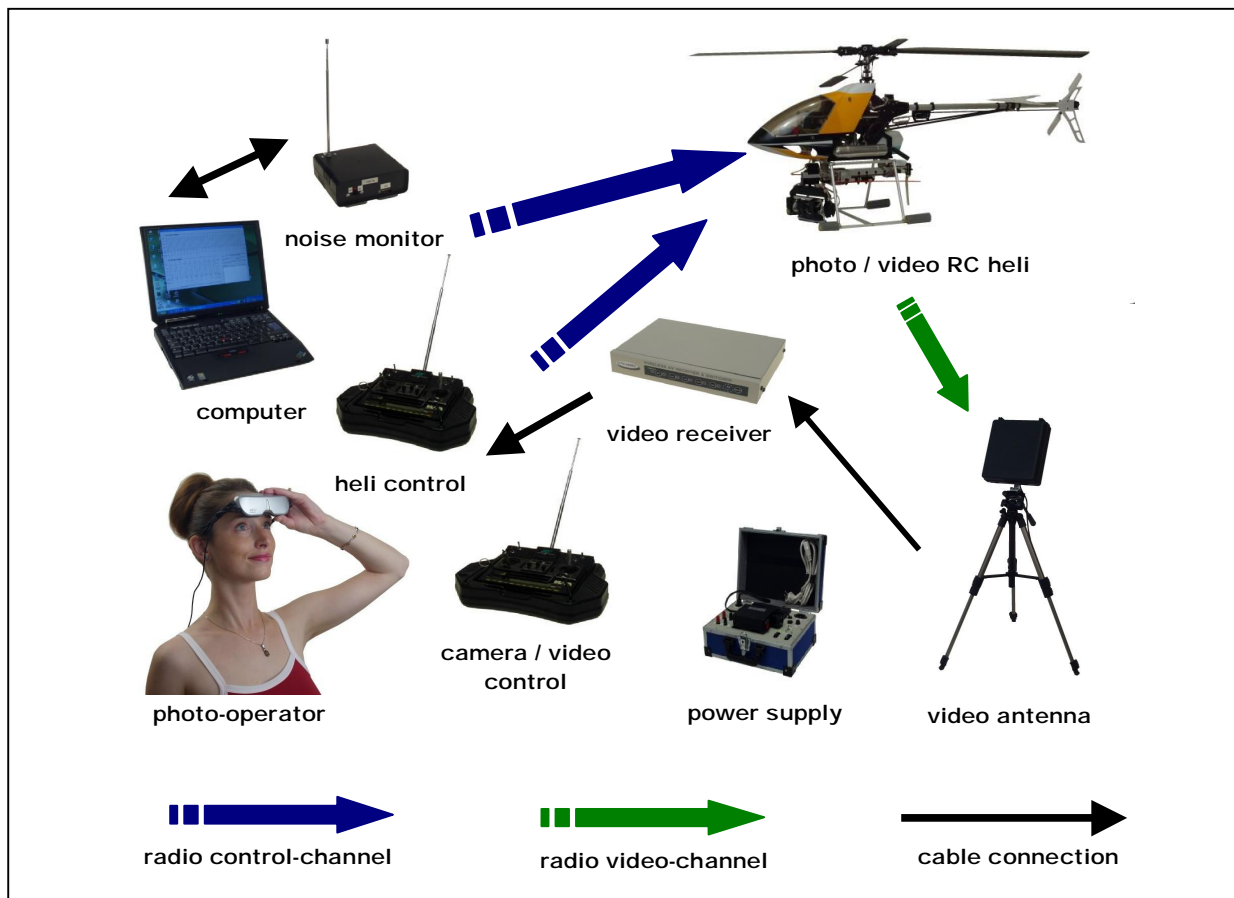
*aerial photography from  
an unmanned aircraft*



## Aero data

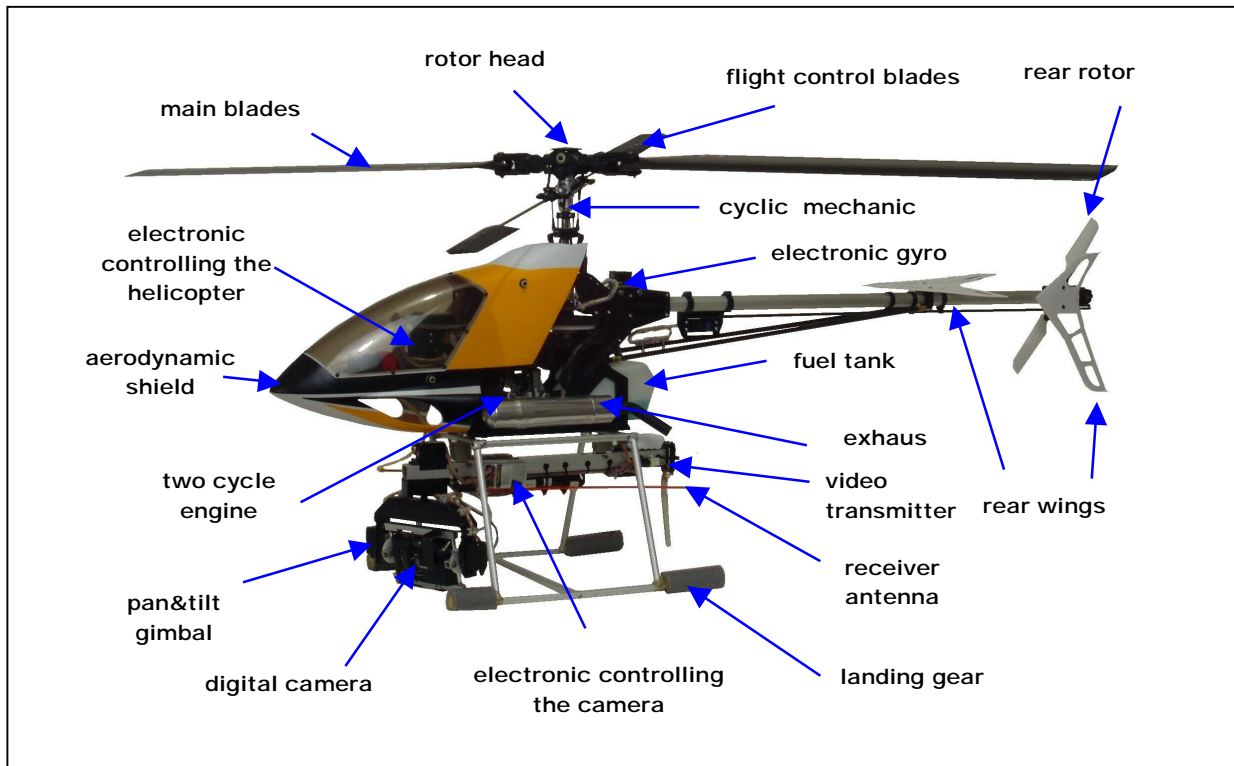
*...gain the insight*

### Explanation of the Unmanned System function



The remotely controlled helicopter with a digital camera on board is the base of the HeliEye unmanned system. Such a technology is exceptionally maneuverable and allows making pictures from places hard to access or inaccessible before. The viewfinder image is transmitted through video channel directly into the ground station in real time. In this way the customer can see the picture composition and influence/control the process of picture acquisition. All the pictures are downloaded directly into a PC after heli landing so the digital pictures/data can be used instantaneously.

## Description of the Helicopter



## Configuration for photography



HeliEye – Foto	Basic	Standard	Profi
carrier	Hirobo class 50	Hirobo class 60	Hirobo class 60
rotor Ø, weight	1.3 m, 4 kg	1.6 m, 5,9 kg	1.6 m, 6.5 kg
landing gear	standard Hirobo	Aerodata	Aerodata
digital camera	Smart 2M pixels	Olympus 4M pixels	Olympus 5M pixels
range of the videosignal	max. 200 m	max. 200 m	max. 300 m
camera positioning	none	90° in one direction	90° in two direction
video receiver	CCTV	CCTV	professional CCTV
receiver antenna	standard all direction	standard all direction	standard directional
power supply	filed supply 10 mAh	filed supply 10 mAh	filed supply 18 mAh

The board electronic made by is Futaba and Aerodata. The analog video signal (PAL coding) is modulated and transmitted in 2.4 GHz band. The system also includes:

- § engine starter
- § start box with fuel pump and with engine ignition unit
- § durable and hi-quality cables
- § durable ignition cable
- § video-eye-glasses Olympus
- § 2 x RC programmable transmitter Robe Futaba FC 28

## Configuration for video

HeliEye – CAM	Basic	Standard	Profi
carrier	Hirobo class 30	Hirobo class 60	Hirobo class 60
rotor Ø, weight	1.3 m, 4 kg	1.6 m, 6 kg	1.6 m, 6 kg
landing gear	with no active gyro-stabilization	with no active gyro-stabilization	with the active gyro-stabilization
digital camera	PAL transmission into grand station	PAL recorded on board	PAL transmission into grand station
range of the video signal	max. 250 m	max. 250 m	min. 250 m
camera positioning	90° in two directions	90° in two directions	90° in two or three directions
video receiver	CCTV	CCTV	professional CCTV
receiver antenna	standard all direction	standard all direction	standard directional
power supply	filed supply 10 mAh	filed supply 10 mAh	filed supply 18 mAh
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### About Aerodata

The Aerodata Ltd. provides services and technology for low altitude aerial photography and reconnaissance. The company's domain is a complementary service to aircraft and satellite aerial services. Our pictures are taken from a radio controlled carrier, which gives us an extraordinary flexibility. Our low altitude picture preserves perspective and can also easily maintain picture horizon. This gives new possibilities in digital processing. Moreover, we provide unbeatable pricing compare to aircraft or satellite technology. We usually transport a pilot, an operator (a photographer) and all the equipment directly to the place (or close to the place) where a customer needs to take pictures. The remotely controlled helicopter allows a real time image display to the operator during the entire flight. This way the customer has unique opportunity to see the remote image and influence the place or view from which the picture will be taken. As a final product we deliver to the customer a printed or an electronic photo-documentation.

We provide high quality services.

*Aerodata...gain the insight*

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