

MAV-07

Petter Muren, 18.09.2007

Proxflyer Micro Helicopters

and ornithopters

proxflyer

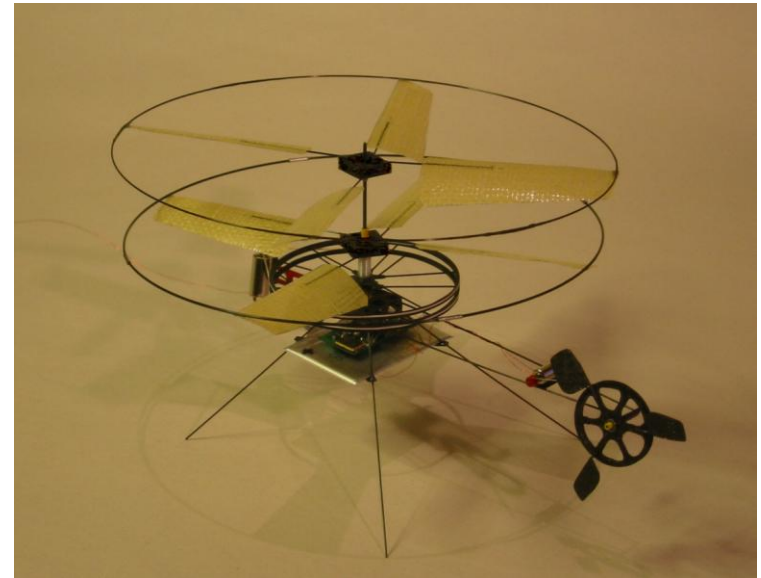


- Presented September 2007
- Weight 30 grams
- Rotor diameter 160 mm
- Length 180 mm
- 4 ch. 35 MHz radio control
- Main motors (2x) 0.8 W
- Control motors (2x) 0.3 W
- Video 2.4 GHz
- Battery 3.7 V, 200 mAh
- Flight time 5-10 minutes



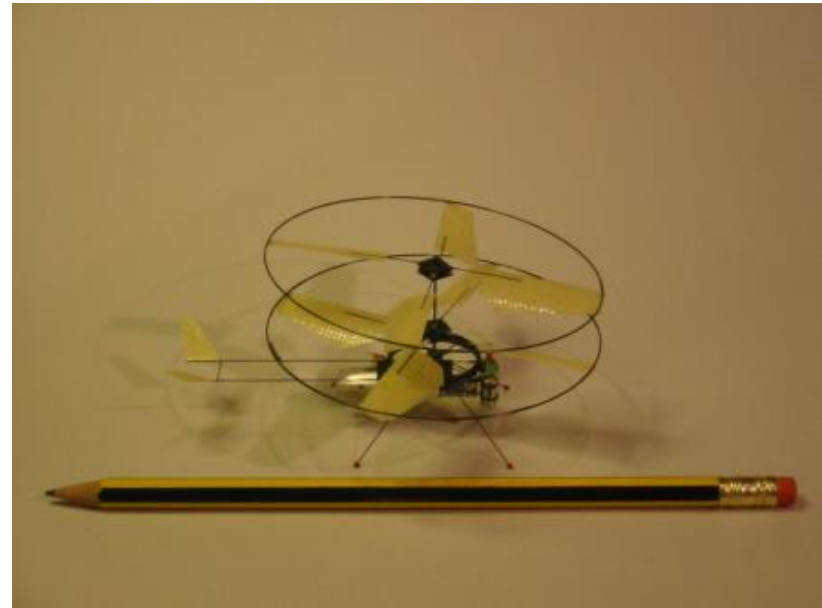
Coaxial rotor helicopter with 4 ch. radio control and a camera system. The yaw is gyro stabilized while the helicopter is utilizing a passively stable rotor system. The helicopter is operated by a remote pilot using feedback from the camera to help with the navigation when the helicopter is out of sight.

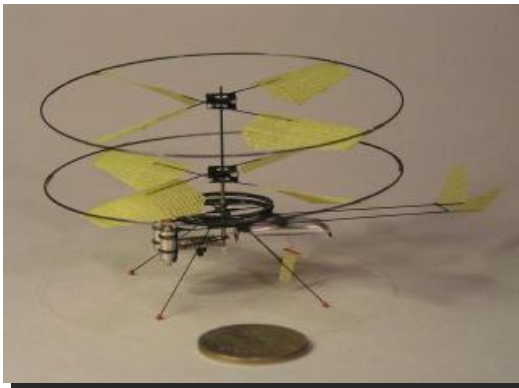
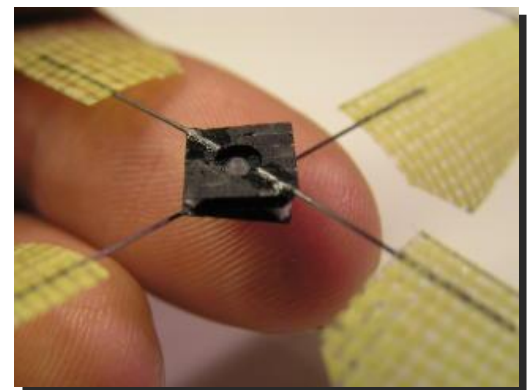
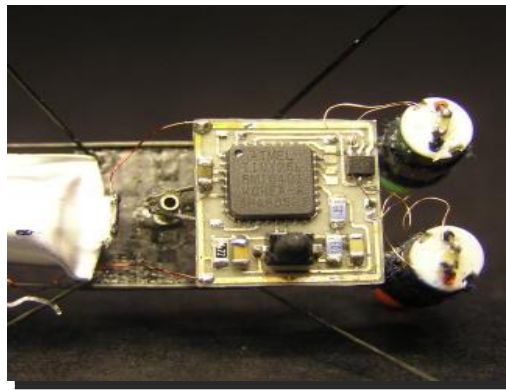
- Presented in December 2003 (100 years after the first flight)
- Weight 6.9 gram
- Rotor diameter 128 mm
- 2 ch. FM radio control
- C.G. trimmed forward
- Motor 6 mm, 4.5 ohm
- Tail motor 4 mm, 25 ohm
- Flight time up to 10 minutes

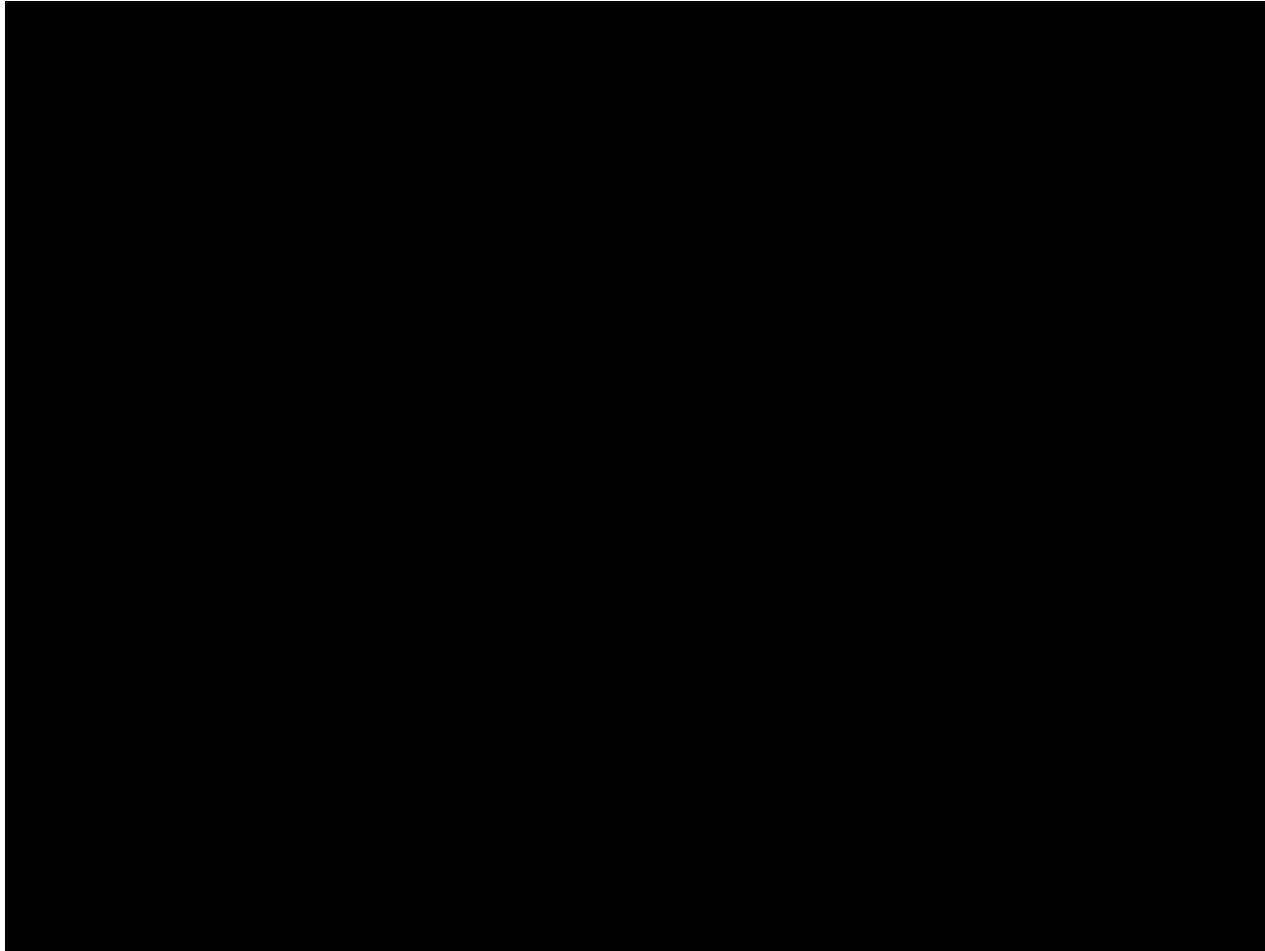




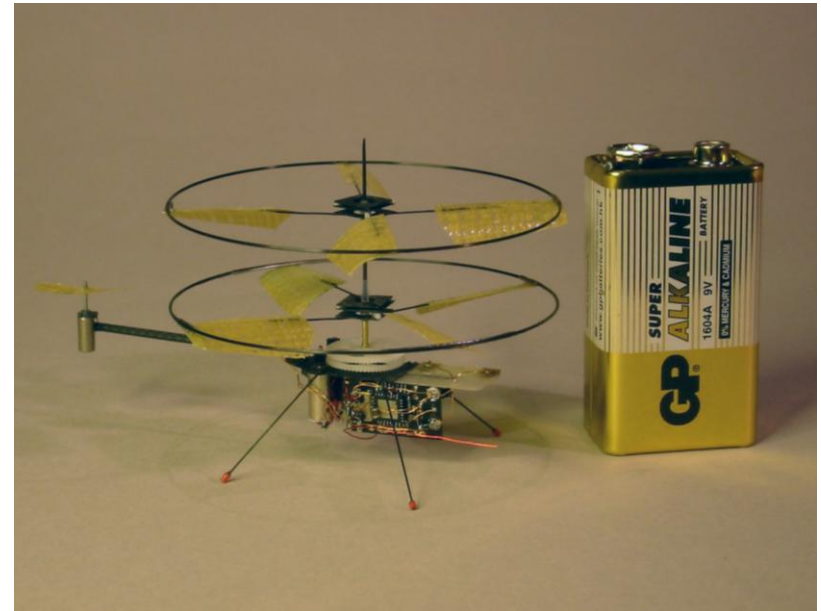
- Presented in September 2004
- Weight 2.7 gram
- Rotor diameter 85 mm
- 2 ch. IR control
- C.G. trimmed forward
- Motor (2x) 4mm, 25 ohm
- Battery 20 mAh
- Flight time up to 5 minutes



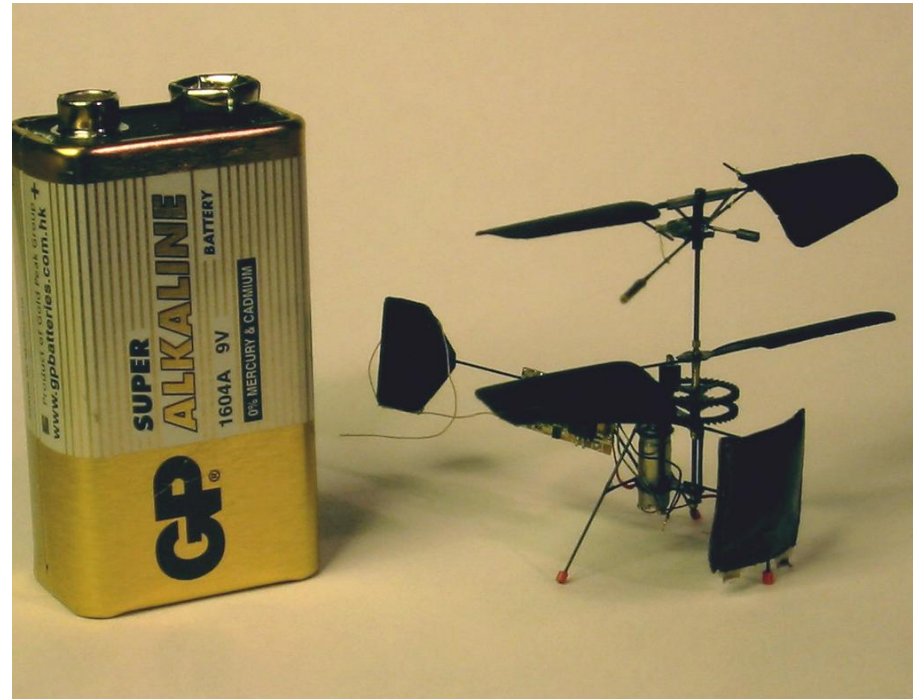




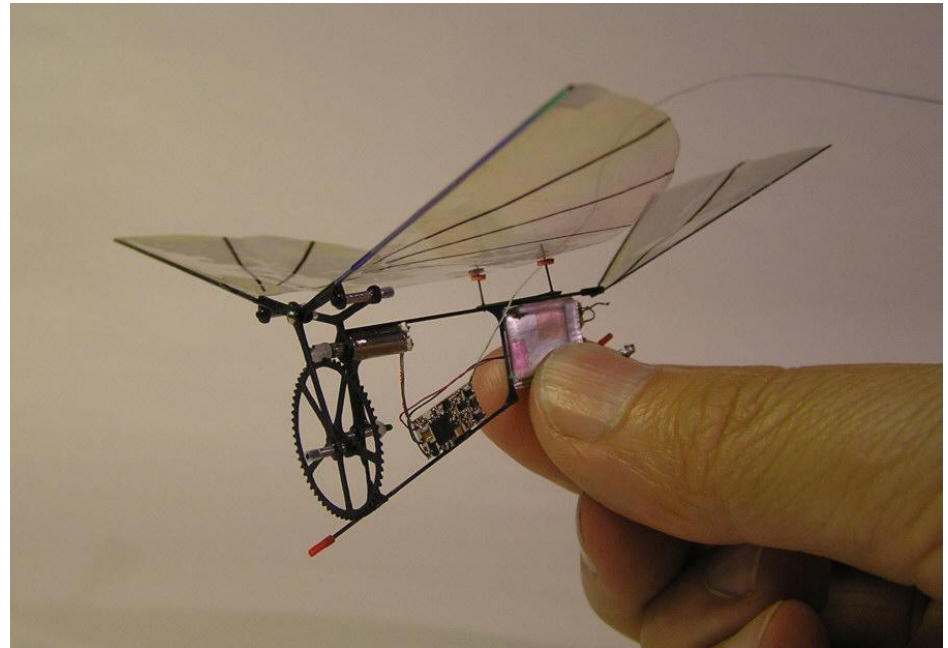
- Presented in September 2005
 - Rebuilt in 2007
 - Weight 2.8 gram
 - Rotor diameter 60 mm
 - 2 ch. 27 MHz radio control
 - Main motors (2x) 4 mm, 10 ohm
 - Battery 30 mAh
 - Flight time 1-2 minutes
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- This is believed to be the worlds smallest 2 ch. RC helicopter



- Presented September 2006
- Rebuilt in 2007
- Weight 0.89 gram
- Rotor diameter 65 mm
- 1 ch. 27 MHz radio control
- Main motor 3.5 mm, 25 ohm
- Battery 8 mAh
- Flight time – just a few seconds so far
- This is believed to be the worlds lightest 1 ch. RC helicopter



- Presented September 2007
- Weight 1.1 gram
- Wingspan 100 mm
- 1 ch. 27 MHz radio control
- Motor 3.2 mm, 35 ohm
- Manual setting of flight direction
- Battery 8 mAh
- Flight time up to 1 minute
- This is believed to be the worlds lightest 1 ch. RC ornithopter



- Presented September 2007
- Weight 12 gram
- Wingspan 300 mm
- 2 ch. 27 MHz radio control
- Main motor 6 mm, 3 ohm
- Turning motor 4 mm, 10 ohm
- Direction control by differential induced drag
- Battery 50 mAh
- Flight time 10 minutes

