



**Air Robot**  
Technical Information

## Air Robot

### Technical Information

#### General Data

weight < 1 kg  
size < 1 m d. / Diameter  
flight duration > 20 min.  
pay load 200g  
distance 500 m  
transport detachable



#### AirRobot Inside

4 brushless and gearless electric drives  
(2000 rpm for silent operation)  
barometrical altitude control  
protection ring and landing gear  
receiver with 35 MHz  
LiPo-Battery (14,8 V, 2,05 Ah)  
gyroscopical and accelerational sensors  
autonomous landing if radio communication  
is missing or battery is low  
flight duration approx. 20 minutes  
wind load up to 4 m/sec  
diameter < 1m  
take-off weight incl. pay load <1 kg



#### Base Station

2,3 - 2,5 GHz security link with 4-fold diversity receiver  
for video transmission  
mini stand  
radio control system  
battery  
charging adapter  
software for easy documentation of missions by using  
the touch-screen of the TFT Tablet-PC  
(photos and recording during the flight)  
audio channel at base station to document missions by  
using a headset  
residual energy indication to base station by downlink  
flight control by using TFT Tablet PC or video eyeglas-  
ses



#### Pay Loads

daylight color video (470 lines)  
dawn b/w video camera (570 lines, 0.0003 lux)  
digital camera (7.1 MPixel)  
IR thermal imaging camera (320 x 240 dots, range to  
detect human activity up to 100 m [330 feet])  
vertical tilt mechanism  
measuring technique sensors



If you would like further Information about ELAMAN,  
or would like to discuss a specific requirement or project, please contact us at:

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