

## Description of Airspeed Airships AS 800B Blimp Operated as the JPL Titan Aerobot Testbed

December 2006

The basic performance specifications of this blimp and a photograph are given in the table below:

Parameter	Value
Length	11 m
Max. diameter	2.5 m
Hull volume	34 m <sup>3</sup>
Static payload (asl)	10 kg
Dynamic payload (asl)	16 kg
Max. ceiling	300 m
Max. speed	25 km/hr
Max. endurance	1 hour
No. of engines	2
Engine power (each)	2.2 kW



The blimp has two O.S. Max-108FSRring <BX-1> engines running on the typical RC model aircraft fuel containing 18% nitromethane. Teleoperation control is effected with a Futaba Model T9CP hand held control unit (pictured below) which operates over a standard 72 MHz link.

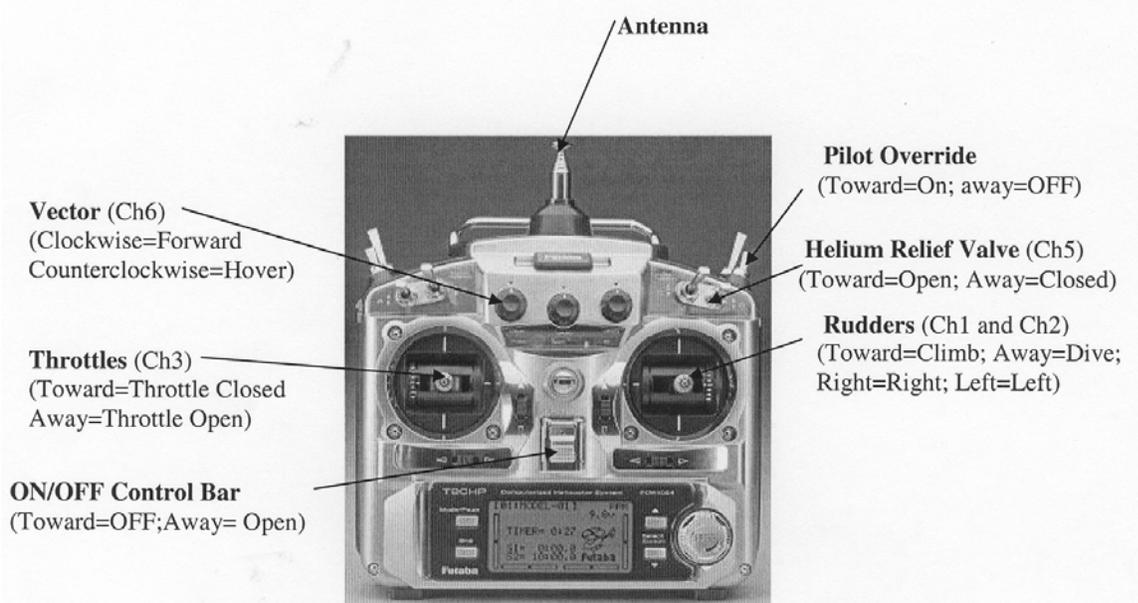


Figure 1: Radio control (refers to toward or away from pilot)