Aero Drum Ltd
1999

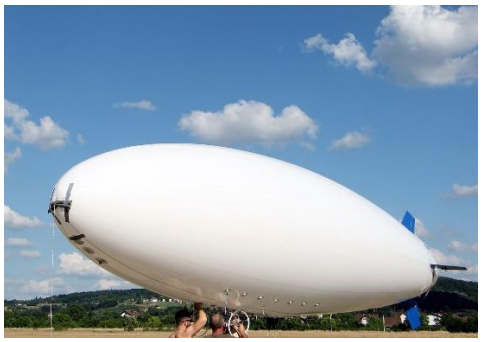
10 m outdoor RC Blimp

Specification January 2026

Item/component	Ready to Fly RC Blimp	Kit Configuration/Set
Size	10 m x 2.2 m	Yes (Yes (included) – No (not included))
Volume	Up to 24 m3	Yes
Lift capacity	Up to 3.5 kg	Yes
Envelope film	Polyurethane 125 microns white	Yes
Envelope assembly technology	Ultrasonic welding	Yes
Maximum helium loss	1% on total volume per day max	Yes
Stabilizers	4	Yes
Stabilizers material	Balsa, Styrofoam, Ultra-cote composite, Elastic adhesive films, servo in inch fin in pairs - set to work in same direction (2 by 2), 4 servos in total	Yes
Stabilizers attach system	Velcro base and Velcro tighten lines, Fins, ailerons and servos set as well as the harness system	Yes
Valve	2 x Built in the envelope	Yes
Logo (Optional)	/	/
Gondola	Aluminum with central aluminum 15 mm axis with ball bearings and 3D printed components	Yes
Gondola attaches system	Screws on a point in parallel on the envelope size M5	Yes
Additional gondola reinforcement	3D printed components and 8 mm aluminum or carbon tubes	Yes
Internal RGB light (Optional)	/	/
Dropping mechanism (Optional)	/	/
Front Motors	2 main brushless motors	No
ESC	Main motors 80 A	No
Back reverse motor	Brushless	No
Back motor ESC	40 A	No
Main axis Servo	Strong servo for the motor's axis with separate power source	No
Gear reduction	5:1 (3D printed PLA)	Yes
RC System	Futaba, Kavan or Similar	No
Safety/park line	2 x 10 m 3 mm Polyester line with aluminum clip	Yes
Battery	2 x Li-Po 5000 mAh 11.1 V (1 battery per main motor) and 5000 mAh for receiver and rest electronics and Li-Po 5000 mAh 11.1 V at the back – 20000 mAh total	No
Digital charger	Included	No
Filling hose	1.5 m filling hose with special plastic adapter for the valve	Yes
Flight autonomy	30 to 40 minutes depending on piloting style.	/
Balance lead	Included	No
Rail System	Special rail system originally developed to attach the cabin and additional payload as gimbal for camera or other sensing equipment. This system allows moveable payload to set it in the exact gravity center of the RC Blimp.	Yes

Safety valve	RC controlled safety valve on top of the Blimp for emergency helium release	Yes
Safety reel	100 m of 2 mm Polyester line to be dropped on the ground in case of emergency. Servo controlled	No
Main motors axis	10 mm aluminum reinforced axis on double ball bearings. Turn able minimum 270 degrees	Yes
Balance pockets	Front and back balance pockets – Lead weight provided	Yes
Balance lead bar	At the front up to 1 kg weight	No
RC Setup	All the RC controls are set and tested in our workshop including the special channel for the Safety valve which is protected against accidental opening	No
RC Controls	All the controls are double. Up (main motors and back horizontal ailerons), Down (main motors and back horizontal ailerons), Left (main motors and back vertical ailerons), Right (main motors and back vertical ailerons) – Typical setting	No
Repair Kit	0.4 m2 of Polyurethane film	

The above specification is for the **Ready to fly** ordered RC Blimps. In other words, it is a fully functional RC Blimp that just need helium container which is purchased locally. **Kit configuration/Set** has most of the above components (key components) except the electronics as shown in the above table. Production time for a 5,6,7,10 or 12 m RC Blimp - Ready to Fly or Kit configuration - is around a month. The specification for the electronics components is subject to change depending on the available provider but do not affect the end quality of the blimp in any way. The envelope is tested 24 hours under high air pressure after competition and the electronics are at least tested 1 hour in all work regimes.



All info: Aero Drum Ltd, Vojislava Ilica 99a, 11050 Belgrade, Serbia, Europe, rczeppelin@gmail.com, rczeppelin@protonmail.com, +381641213546, +381645637679