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Aero Drum Ltd
Est. 2002.

5 m OUTDOOR RC BLIMP

Specification March 2014

	Ready to Fly RC Blimp	Kit Configuration/Set
Size:	5 m x 1.7 m	Yes
Volume:	8 m3	Yes
Lift capacity:	1 to 1.2 kg with all equipment set on the blimp	Yes
Envelope material:	Polyurethane 100 microns UK or USA imported film – Top quality	Yes
Envelope Assembly technology:	Special polyurethane elastic adhesiv, thermal and double welded	Yes
Maximum helium loss:	0.3 % per day max on total volume	Yes
Fins:	4 fins	Yes
Fins material and setting:	Balsa, Styrofoam, Ultracote composite, Elastic adhesive films, servo in inch fin in pairs - set to work in same direction (2 by 2), 4 servos in total	Yes
Fins atachment system:	Velcro base and Velcro tighten lines, Fins, ailerons and servos set as well as the harness system	Yes
Valve:	Built in the back – 2 stage valve	Yes
Logo:	With elastic banner films (cutter) or printed on vinyl sticker, 3D styrofoam cutt Logo, banners. Optional - setting of the Velcro bases for the printed banners on the envelope.	/
Cabin:	Aluminum with central alluminum 10 mm axis	Yes
Cabin attachment system:	Velcro and tighten lines on separate attachments – rail system	Yes
Internal light - Optional:	White only or RGB with IR controller and separate 12 V battery source. **White Internal** Led Light 12V 3 m let strip, 12V separate NiMH battery. – **150 Euro** **RGB Internal** Led Light 3 m strip, 64 light combinations, Infra Red remote/control, 12 V NiMH separate battery. – **250 Euro**	Yes - Optional
Motor:	2 main motors brushless outrunner	/
ESC:	30 A paralel with 2 A for RC	/
Servo (forward/back/up/down):	Strong servo for the motors axis	/
Back ESC (left/right):	Brush reverse ESC	/
Gear reduction:	5:1 plastic gear reduction	Yes
Filling hose:	1.5 m filling hose with special plastic adapter for the valve	Yes
Safety/Park line:	3 m 2 mm polyester line with aluminum hook	Yes
Digital charger:	Included	/
Battery:	2 x Li-Po 3000 mAh 11.1 V (1 battery per main motor) and 3000 mAh for receiver and rest electronics – 9000 mAh total	/
Flight autonomy:	40 to 60 minutes	
RC System:	6 channels minimum 2.4 GHz receiver/sender Spektrum, Graupner or Futaba	/
Back low fin motor:	12 V brushed	/
Dropping mechanism - Optional:	Standard servo and mechanical system – **50 Euro**	Yes - Optional
Rail System:	Special rail system originaly developed to attach the cabin and aditional payload as gimbal for camera or other sensing equipment. This system allows moveable cabin and payload to set it in the exact gravity center of the RC Blimp.	Yes

Safety Valve - Optional:	RC controled safety valve on top of the Blimp for emergency helium release – **250 Euro**	Yes - Optional
Main motors axis:	10 mm aluminum reinforced axis on double ballbearings. Turnable minimum 270 degrees	
Ballance pockets:	Front and back ballance pockets – Lead weight provided	Yes without the lead weight
RC setting:	All the RC controls are set and tested in our workshop including the special channel for the Safety valve wich is protected against accidental oppening	We instal the RC Safety valve in the envelope. The RC and the RC setting are not included.
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)	/
Repair Kit	0.5 m2 of Polyurethane film same as the envelope and polyurethane glue	/

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 m Outdoor RC Blimp - Ready to Fly or Kit configuration - is 10 to 15 days
The specification for the electronics components is subject to change depending on the available provider but do not affects the end quality of the blimp in any way. The envelope is tested 24 hours under high air pressure after completition and the electronics are at least tested 1 hour in all working regimes.

For Aero Drum Ltd – Mr. Alexander Mijatovic – March 2014