

Compact Aerial Photography System

	Specification March 2014		
	Ready to Fly Aerial Photo System	Kit Configuration/Se	
Ellipsoid size:	2.8 x 2.8 x 1.9 m	Yes	
Volume:	8 m3	Yes	
Lift capacity:	Up to 600 g with at least 3 kg for line tension	Yes	
	and stability		
Envelope material:	Polyurethane 100 microns UK or USA imported	Yes	
	film – Top quality		
Envelope Assembly technology:	Special polyurethane elastic adhesiv, thermal	Yes	
	and double welded. 12 ellipsoid parts for smooth		
	shape.		
Maximum helium loss:	0.3 % per day max on total volume	Yes	
Stabilization sail:	2.5 m2 50% permeable Till for in air stability and	Yes	
	in wind positioning. Velcro attachment system.		
Attachment:	5 main attachments on the Ellispoid and 2	Yes	
	attachments for the Camera rig		
Sail atachment system:	Velcro attachment system.	Yes	
Valve:	Built in low ballon area – 2 stage valve	Yes	
Logo possibilities - Optional:	With elastic banner films (cutter) or printed on	Yes - Optional	
	vinyl sticker on 2 sides		
Camera rig:	8 mm Aluminum T shape as a link between the	Yes	
	Balloon and gimbal and main line	N/	
Main line:	Kevlar 2.5 mm 150 m. 400 kg tested break force.	Yes	
Mechanical Camera Gimbal:	Pan 375 degrees, Tilt 120 degrees, Shoot Servo,	/	
	Zoom servo. Central X axis mechanically gyro		
Don Coox radication.	stabilized.	1	
Pan Gear reduction:	5:1 plastic gear reduction	<i>1</i>	
Gimbal Central axis:	8mm aluminum road with double ballbearings	/	
Camera and lences weight: Gyro stabilized gimbal - Optional:	For Cameras up to 1.5 kg Pan and Tilt Gyro stabilized - Arduino	1	
dyro stabilized giribar - Optional.	Fair and The Gyro stabilized - Arddino	1	
Filling hose:	1.5 m filling hose with special plastic adapter for	Yes	
r ming nose.	the valve	163	
Safety/Park line:	5 m 2 mm polyester line with aluminum hook	Yes	
Digital charger:	Included	/	
Battery:	3000 mAh 11.1 V for the Camera gimbal and 5.8	/	
y•	GHz video sender.	•	
Flight autonomy:	120 to 180 minutes. Lower the balloon change		
	the battery and go again with same autonomy.		
RC System:	6 channels minimum 2.4 GHz receiver/sender	/	
-	Spektrum, Graupner or Futaba		
Wireless Video:	5.8 GHz 1000 mW 8 channels selectable.	/	
	Attached to the Video Out or HDMI of the		
	camera or. Range 500 m minimum.		
Ground preview unit:	Plastic case. 8 inch color monitor, 7.5 A Pb high	/	
	capacity battery, wireless 5.8 GHz receiver 8		
	channels selectable. Autonomy 5 to 6 hours		
	minimum.		
Safety Valve - <mark>Optional</mark> :	RC controled safety valve on top of the Blimp for	Yes - Optional	
	emergency helium release		
RC setting:	All the RC controls are set and tested in our	We instal the RC Safety	
	workshop including the special channel for the	valve in the envelope. The	
	Safety valve wich is protected against accidental	RC and the RC setting are	
	oppening	not included.	
Controls:	Pan/Tilt/Zoom/Shoot controls on the RC easy to	/	

	use and master	
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 Compact Aerial Photography Systems. In other words it is a fully functional Compact Aerial Photography System that just need the camera and 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 Compact Aerial Photography Systems- Ready to Fly or Kit configuration – is 15 to 20 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

















