

Specification of Avalanche Victim Locator Balloon with GPS

S.N	Parameter	Technical Specification	Remarks
1	Design	Cylindrical canister, similar to a light saber. Helium tank attached at the bottom to deflate and fold inflatable balloon. Minimum 150 feet of monofilament string attached to the balloon	
2	Dimension	Length 6 inch± 10% , diameter 2inch ± 10%	
3	Weight	0.25 Pound ± 10%	
4	Indicator	Should have the circuit board programmed to flash an SOS signal with GPS Coordinates.	
5	Packaging	All of this is sealed inside the canister by a cap at the top with an o-ring installed, making a water-tight seal when closed	
6	Handling	Easy to hold, and hoop for a clip for attaching to a belt, backpack, or life jacket, with glow-in-the-dark reflective tape to make it easy to find at night	
7	Standards	CE or Equivalent	

Specification of Crevasse Rescue Drone

S.N	Parameters	Technical Specifications	Remarks
Performance			
1	Takeoff Weight	900 g to 1400 g	
2	Horizontal Speed	Minimum 72 km/h	
3	Ascent Speed	Minimum 5 m/s	
4	Descent Speed	Minimum 3 m/s	
5	Wind Resistance	Minimum 10 m/s	
6	Flight Ceiling	Minimum 6000 m	
7	Flight Time	Minimum 30 Minutes	
8	Hover Time	Minimum 29 Minutes	
9	Tilt Angle	Minimum 35°	
10	Hovering Accuracy	±0.1 m Vertical with Vision Positioning	
		±0.5 m Vertical with GPS	
		±0.3 m Horizontal with Vision Positioning	
		±1.5 m Horizontal with GPS	
Flight Control System			
11	GNSS Support	GPS, GLONASS	
Sensing System			
12	Sensing System	Omnidirectional Obstacle Sensing	
13	Operating range	Minimum 0.5 to 8.0 m (all direction)	
Remote Controller / Transmitter			
14	Operating Frequency	2.4 GHz (2.400 - 2.483) and 5.8 GHz (5.725 - 5.850)	
15	Maximum Operating Distance	Minimum 7000 m	

16	Transmitter Power	Minimum 26 dBm	
17	Connectivity	Minimum 1 x Micro-USB and 1 x USB	
18	Battery	1 x Built-In	
19	Battery type	Lithium-Ion/ LiPo 2S	
20	Battery Capacity	Minimum 3950 mAh	
21	Mobile Device Holding Compatibility	Tablets and Smart Phones	
22	Operating Temperature	0 to 40°C or better	
Camera			
23	Sensor	1" CMOS	
24	Effective Pixels	Minimum 20 MP	
25	Electronic Shutter Speed	Max 1/8000 Second	
26	Photo Resolution	Minimum 5472 x 3648	
27	Photo Format	JPEG, DNG	
28	Video	Must shoot 4K video with Minimum 24 fps	
29	Recording Media	microSD (Up to 128 GB)	
30	Photo Modes	Auto-Exposure Bracketing (AEB), Burst Shooting, Interval, Single Shot	
31	Video Format	MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)	
32	Video Bitrate	Minimum 100Mbps	
Gimbal			
33	Number of Axes	3 (Pitch, Roll, Yaw)	
34	Control Range	Pitch: -90° to 30°	
35	Angular Speed	Pitch: Minimum 90°/s	
Flight Battery			
36	Battery type	Lithium-Ion Polymer (LiPo) or better	
37	Capacity	Minimum 3850 mAh	
38	Weight	Maximum 300 g	
Charger			
39	AC Input Power	Should be compatible to the device	
40	Output Voltage	Should be compatible to the device	
41	Power Rating	Should be compatible to the device	
Others			
42	Accessories	Extra Flight Battery, Drone hard case bag	
43	Standard	ISO or Equivalent	
44	Warranty	Minimum 1 year/Provided by OEM whichever is greater	