



Test Plan for SkySeed

Panalloon Systems

Prepared for

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SkySeed Test Plan

SkySeed Test plan (Proof-of Concept) Revision 1.1	
Tester's Name:	
Test Date:	
Test Case Results	Comments
A. Aerial System Testing	
A.1. No entanglement of tether and netting <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
A.2. Reel-able tether stays intact with SkySeed <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
A.3. Successfully lift 1.1 kg to 20 m <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
A.4. Netting lays fitted on balloon while securing payload: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
B. Modularity	
B.1. Camera mount must be easily disassembled when required: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
B.2. Camera mount must be securely fastened to enclosure during operation: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
B.3. Enclosure can be easily disconnected from netting: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
C. Power Testing	
C.1. Battery current output does not exceed 1.1 A: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
C.2. Power wire stays intact: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
C.3. LED is On to express power delivery to system: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
C.4. Battery lasts up to 3.5 hours: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
C.5. Motor must not exceed 1 A of current drawn at full stall: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
D. Wireless Signal Strength	
D.1. Consistent network communication: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
D.2. Network stable within 15 m from client to server: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	

D.3. Wireless speed of 100 Mbps within 15 m for video stream: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
D.4. Video stream with 1 sec delay: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E. Software Testing	
E.1. Program remains responsive: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.2. Appropriate status messages: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.3. User able to rotate video capture: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.4. "Connection time out" status shown in video box: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.5. Video file saved in default location: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.6. Recorded video file can be opened and viewed: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.7. Video record terminated at 10 min time stamp: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.8. User notified when recording terminates: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.9. Video saved when user exits program while recording: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.10. Status updated upon disconnection: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.11. Direction of motion as expected: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.12. Camera is idle when arrow key not pressed: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.13. User speed selection corresponds with motor speed: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	
E.15. Real-time motion response: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	