	Units	Minutes	Minutes	Unitless	Unitless	Meters/second	Meters/second	Unitless	Meters	Kilograms	Unitless	Unitless	Unitless	Unitless	Meters	Unitless	1-10 Scale	Unitless	Jnitless	Unitless	Minutes	1-10 Scale	Unitless	Cubic centimeters
Product: UAS Subsystem: Airframe	Performance Measures	Flight Time	Battery Life	Lift-to-Drag Ratio	Lift Coefficient	Stall Speed	Average Flight Speed	Total Motor/Prop Efficiency	Turning Radius	Airframe Weight	Spiral Stability Eigenvalue	Static Margin	Cn,beta (Yaw)	Cl,beta (Roll)	Maximum Flight-Path Deviation	% of Payload Protruding from Airframe	Focus Group Coolness Rating	Number of components lost	Number of Damaged Components on crash landing Unitless	Number of Damaged Components on landing	Time to assemble from scratch	Focus Group Ease of repair	Number of AMA Safety Code Violations	Storage Volume
Market Requirements	Importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	19	19	20	21
1 Capable of flight for extended period of time	9																							
2 Capable of traveling an extended distance	9									•														
3 Minimize flight path deviation	9											•		•	•									
4 Components are protected	9																		•					
5 Capable of surviving a crash	9															•			•					
6 Complies with AMA safety code	9																							
7 Capable of carrying UGV and water bottle	3									•														
8 Fast and cheap assembly/rebuild	3																		•					
9 Looks decent	1																							
	Lower Acceptable	10	40	5	0.4	N/A	10	0.2	0	0	-0.1	0	0.05	-0.15	N/A	0	5	0	0	0	0	5	0	10000 8000
						_									_						_			0
	Ide	30	75	8	0.5	10	15	1	2	4	-0.05	0.1	0.1	-0.1	~	0	9	0	0	0	0	10	0	100
	Upper Acceptable Ideal	09	120	N/A	1	20	30	1	15	50	-0.01	0.2	0.15	0	5	100	10	0	1	0	09	10	0	12000