							_										ters			
		Units	Minutes	Unitless	Unitless	Kilograms	Meters/second	Meters/second	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	Cubic centimeters	Minutes	1-10 Scale	1-10 Scale
	Product: UAS Subsystem: Airframe	Performance Measures	Battery life	Lift-to-Drag ratio	Total motor/prop efficiency	Airframe weight	Average flight speed	Stall speed	Spiral stability eigenvalue	Static margin	Cn,beta (yaw)	Cl,beta (roll)	Number of components lost	Number of damaged components on landing	Number of AMA safety code violations	Lift coefficient	Storage volume	Time to assemble from scratch	Focus group ease of repair	Focus group coolness rating
	Market Requirements	Importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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	Complies with AMA safety code	9																		
6	Capable of carrying UGV and water bottle	3																		
7	Fast and cheap assembly/rebuild	3																		
8	Looks decent	1																		
		Lower Acceptable	40	5	0.2	0	10	N/A	-0.1	0	0.05	-0.15	0	0	0	0.4	8000	0	5	5
		deal	75	20			15	10	-0.05	0.1	0.1	-0.1				0.5	10000		10	10
		Upper Acceptable Ideal	120	N/A	1	50 4	30	20	-0.01	0.2	0.15)- 0	0 0	0 0	0 0	1	12000	0 09	10	10