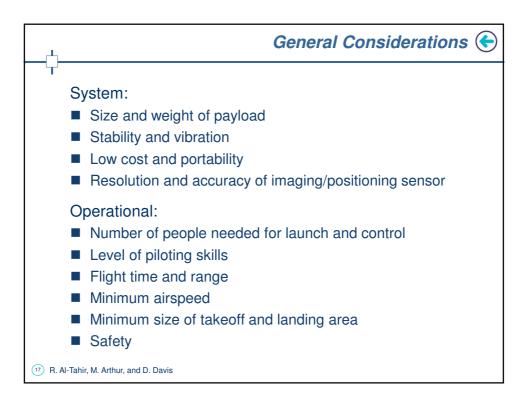




VAV Categories Range (km) Altitude (m) Endurance (hours) Mass (kg) Nano (η) < 1 100 < 1 < 0.025 Micro (μ) <10 250 1 < 5 Mini <10 150/300 <2 < 30 Close Range 10-30 3000 2-4 150 Short Range 30-70 3000 3-6 200		Cat	egorizatio	on of UAV	/ System
UAV Categories (km) (m) (hours) (kg) Nano (η) <1	ange and Al	titude			
UAV Categories (km) (m) (hours) (kg) Nano (η) <1		Range	Altitude	Endurance	Mass
Micro (μ) <10 250 1 <5 Mini <10	UAV Categories			(hours)	(kg)
Mini <10 150/300 <2 < 30 Close Range 10-30 3000 2-4 150	Nano (η)	< 1	100	< 1	< 0.025
Close Range 10-30 3000 2-4 150	Micro (µ)	<10	250	1	<5
	Mini	<10	150/300	<2	< 30
Short Range 30-70 3000 3-6 200	Close Range	10-30	3000	2-4	150
	Short Range	30-70	3000	3-6	200
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_t	Cat	tegorizatio	on of UAV	Systems 🤇
T Flight Perform	mance and	Navigatior	ı	
Sensors	Geo- referencing	Real-time Capability	Application Requirement	UAV Category
No GPS/INS	Post	lowest value	Low accuracy	OM-class
GPS and consumer-grade INS	Post/direct	middle value	Moderate accuracy [dm-m]	M & L-class
DGPS/ navigation- and tactical-grade INS	Post/direct	best value	High accuracy [cm]	M- & L-class
				(Eisenbeiß 2009)
R. Al-Tahir, M. Arthur, and D. Da	avis			





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UAV Model	Туре	Range (km)	Altitude (ft)	Endurance (mins)	Resolution (MP)	Navigation	Price USD
Draganflyer x8	Multicopter	-	8000	20	10	Manual	39,670
Gatewing x-100	Fixed Wing	5	2460	45	10	Autonomous	53,880
CropCam	Fixed Wing	3	2200	55	10 to 12	Autonomous	7,000
MD4-200	Multicopter	0.5	-	20	10	Manual or Waypoint	34,173
MD4-1000	Multicopter	0.5	-	50	12	Manual or Waypoint	53,700
LP960	Fixed Wing	5	1400	35	14	Autonomous	12,937
Pixy 26.40	Paraglider	10	1640	50	12 or 21	Autonomous	8,620
Rover	Fixed Wing	5	2000	60	-	Autonomous	55,000



