Alternative 1 Alternative 2 Alternative 3 Alternative 4

Drone in Farming
Control Based Station
Using Robot with Computer Vision Capability
Mounting Camera with Computer Vision Technology

0.133333333 0.4 0.066666667

Normalize Cost Table

0.125 0.375 0.125 0.375

0.22222222 0.333333333 0.111111111 0.3333333333

	Mounting Camera with Computer Vision I	ecimology					
		Drone in Farming	Control Based Station	Using Robot with Computer Vision Capability	Mounting Camera with Computer Vision Technology		
Criteria 1	Initial Acquiring Cost (lower better)	Popular model such as DJI Drone (Agras T30) cost around \$15,000	Variety (300-1500)	Around \$25000 with industrial tracker like robot (Can be finance)	DIY system with high resolution would cost \$500-\$1000		
Criteria 2	Required skills (lower training hour better)	Training for operating the drone, time spend for Agriculture Application is 10-20 hours	1 months to familarize with control and maintain	One or two months due to routinely modification of part for different need	Half hour to learn download and upload images.		
Criteria 3		Yes, but OEM parts are shipped from international market such as djioemparts.com	Yes, available for Amazon Marketplace	No, Parts are limited and depend on vendors to decide to produce. Mass production only depend on recall of system	Yes, replaceing may be more feasible.		
		Yes, different camera set can bes mounted on the	Yes, battery can be upgraded to prolong the		Yes, higher resolution of camera can improve AI decision.		
Criteria 4	Capability for modifications (upgradability drone. operation and support more sensors Unknown, properiety may prevent system modification.						
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Initial Acquiring Cost (lower better)	Initial Acquiring Cost (lower better) 1.000	Required skills (lower training hour better) 3.000	Availability of aftermarket parts 0.167	Capability for modifications (upgradability) 0.167			
Required skills (lower training hour bette				0.333			
Availability of aftermarket parts	6.000	1.000	1.000	5.000			
Capability for modifications (upgradability)	6.000	3.000	0.200	1.000			
(upgradabitty)	0.000	3.000	0.200	1.000			
sum	13.333	8.000	2.367	6.500			
Normalized A	0.075	0.375	0.070	0.026	0.137		
Normatized A	0.075				0.157		
	0.450				0.442		
	0.450	0.375	0.085	0.154	0.266		
					1.000		
					1.000		
		T	T	T			
Initial Acquiring Cost (lower better)	Drone in Farming	Control Resed Station	Heing Robot with Computer Vision Computer	Mounting Camera with Computer Vision Technology			
Drone in Farming	Drone in Farming	Control Based Station 0.111111111	Using Robot with Computer Vision Capability 0.333333333				
Control Based Station	9			8			
Using Robot with Computer Vision							
Capability	3	0.5	1	0.25			
Mounting Camera with Computer Vision Technology	6	0.125	4	1			
	-		-	-	ļ		
sum	19	1.736111111	7.333333333	9.416666667			
Normalize Cost Table	0.052631579	0.064	0.045454545	0.017699115	0.04494631		
Normalize Cost Table	0.473684211			0.849557522	0.542992251		
	0.157894737		0.136363636	0.026548673	0.152201761		
	0.315789474	0.070			0.050050077		
	0.013703474	0.072	0.545454545	0.10619469	0.259859677		
	0.313703474	0.072	0.545454545	0.10619469	0.259859677		
	0.010700474	0.072	0.545454545	0.10619469			
Required skills (lower training hour	0.0217/004/4	0.072	0.545454545	0.10619469			
better)	Drone in Farming	Control Based Station	Using Robot with Computer Vision Capability	0.10619469 Mounting Camera with Computer Vision Technology			
better) Drone in Farming	Drone in Farming	Control Based Station 2	Using Robot with Computer Vision Capability	Mounting Camera with Computer Vision Technology 1			
better) Drone in Farming Control Based Station	Drone in Farming	Control Based Station 2	Using Robot with Computer Vision Capability	Mounting Camera with Computer Vision Technology			
better) Drone in Farming Control Based Station Using Robot with Computer Vision	Drone in Farming 1 0.5	Control Based Station	Using Robot with Computer Vision Capability 5 2	Mounting Camera with Computer Vision Technology 1 0.5			
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer	Drone in Farming	Control Based Station	Using Robot with Computer Vision Capability 5 2	Mounting Camera with Computer Vision Technology 1			
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability	Drone in Farming 1 0.5	Control Based Station	Using Robot with Computer Vision Capability 5 2	Mounting Camera with Computer Vision Technology 1 0.5			
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology	Drone in Farming 1 0.5 0.2 1	Control Based Station 2 1 0.5	Using Robot with Computer Vision Capability 5 2 1	Mounting Camera with Computer Vision Technology 1 0.5 0.25	1		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming	Control Based Station 2 1 1 0.5 2 5.5	Using Robot with Computer Vision Capability 5 2 1 4	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75	1		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037	Control Based Station 2 1 0.5 2 5.5	Using Robot with Computer Vision Capability 5 2 1 4 12 0.41666667	Mounting Camera with Computer Vision Technology 1 0.5 0.5 0.25 1 2.75 0.363636364	0.378577441		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185	Control Based Station 2 1 0.5 2 5.5 0.363636364 0.181818182	Using Robot with Computer Vision Capability 5 2 1 4 22 0.416666667 0.16666667	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363636364 0.181818182	0.378577441 0.178872054		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037	Control Based Station 2 1 1 0.5 2 5.5 0.36363264 0.18181812 0.090909091	Using Robot with Computer Vision Capability 5 2 1 1 4 0.416666667 0.16666667 0.083333333	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363836364 0.18181182 0.090909001	0.378577441		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.074074074	Control Based Station 2 1 1 0.5 2 5.5 0.36363264 0.18181812 0.090909091	Using Robot with Computer Vision Capability 5 2 1 1 4 0.416666667 0.16666667 0.083333333	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363836364 0.18181182 0.090909001	0.378577441 0.178872054 0.084806397		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.074074074	Control Based Station 2 1 1 0.5 2 5.5 0.36363264 0.18181812 0.090909091	Using Robot with Computer Vision Capability 5 2 1 1 4 0.416666667 0.16666667 0.083333333	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363836364 0.18181182 0.090909001	0.378577441 0.178872054 0.084806397 0.357744108		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.074074074	Control Based Station 2 1 1 0.5 2 5.5 0.36363264 0.18181812 0.090909091	Using Robot with Computer Vision Capability 5 2 1 1 4 12 0.416666667 0.083333333 0.333333333	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363836364 0.18181182 0.090909001	0.378577441 0.178872054 0.084806397 0.357744108		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.074074074 0.37037037	Control Based Station 2 1 0.5 2 5.5 0.363836364 0.181818182 0.090909091 0.363636364	Using Robot with Computer Vision Capability 5 2 1 1 4 0.416666667 0.16666667 0.083333333	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.363636364 0.181818182 0.090900901 0.363636364	0.378577441 0.178872054 0.084806397 0.357744108		
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better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table Availability of aftermarket parts Drone in Farming Control Based Station Using Robot with Computer Vision	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.07407447 0.37037037 Drone in Farming 1 4	Control Based Station 2 1 0.5 2 5.5 0.36363364 0.181818182 0.09599991 0.363636364 Control Based Station 0.25	Using Robot with Computer Vision Capability 5 2 1 1 4 2 0.416666667 0.16666667 0.08333333 0.33333333 Using Robot with Computer Vision Capability 3 3	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.383636364 0.181811812 0.090900901 0.363638364 Mounting Camera with Computer Vision Technology 0.5 2	0.378577441 0.17872054 0.084806397 0.357744108		
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better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table Availability of aftermarket parts Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology	Drone in Farming 1 0.5 0.2 1 1 2.7 0.37037037 0.185185185 0.074074074 0.37037037 Drone in Farming 1 1 4 0.3333333333	Control Based Station 2 1 0.5 2 5.5 0.363636364 0.181818182 0.090909091 0.363636364 Control Based Station 0.25 1 0.3333333333	Using Robot with Computer Vision Capability 5 2 1 4 12 0.416666667 0.16666667 0.08333333 0.33333333 Using Robot with Computer Vision Capability 3 3 1 4	Mounting Camera with Computer Vision Technology	0.378577441 0.178872054 0.084906397 0.357744108		
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better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table Availability of aftermarket parts Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum	Drone in Farming 1 0.5 0.2 1 2.7 0.37037037 0.185185185 0.074074074 0.37037037 Drone in Farming 1 4 0.333333333 2 7.333333333	Control Based Station 2 1 0.5 2 5.5 0.363636364 0.181818182 0.090909091 0.363636364 Control Based Station 0.25 1 0.333333333 2 3.5833333333	Using Robot with Computer Vision Capability 5 2 1 1 4 4 12 0.416666667 0.16666667 0.083333333 0.33333333 Using Robot with Computer Vision Capability 3 3 1 4 4 11	Mounting Camera with Computer Vision Technology	0.378577441 0.178872054 0.084806397 0.357744108 1		
better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table Availability of aftermarket parts Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology	Drone in Farming 1 0.5 0.2 1 1 2.7 0.37037037 0.185185185 0.074074074 0.37037037 Drone in Farming 1 4 0.333333333 2 2 7.333333333 0.13636366 0.5454545456	Control Based Station 2 1 0.5 2 5.5 0.363636364 0.181818182 0.09090901 0.363636364 Control Based Station 0.25 1 0.33333333 2 3.583333333 2 0.06976742 0.079096742	Using Robot with Computer Vision Capability 5 2 1 1 4 4 12 0.416666667 0.166666667 0.08333333 0.333333333 1 Using Robot with Computer Vision Capability 3 3 1 1 4 4 11 0.272727273	Mounting Camera with Computer Vision Technology 1 0.5 0.25 1 2.75 0.383838364 0.181818182 0.090909091 0.363636364 Mounting Camera with Computer Vision Technology 0.5 2 0.25	0.378577441 0.178872054 0.084806397 0.357744108 1		
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better) Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table Availability of aftermarket parts Drone in Farming Control Based Station Using Robot with Computer Vision Capability Mounting Camera with Computer Vision Technology sum Normalize Cost Table	Drone in Farming 1 0.5 0.2 1 1 2.7 0.37037037 0.185185185 0.074074074 0.37037037 Drone in Farming 1 4 0.333333333 2 7.33333333 2 0.136363636 0.146454545 0.045454545	Control Based Station 2 1 0.5 2 5.5 0.383836364 0.181818182 0.09909091 0.363636364 Control Based Station 0.25 1 0.333333333 2 3.58333333 2 0.06976742 0.279069767 0.05982556 0.558139535	Using Robot with Computer Vision Capability 5 2 1 1 4 2 12 0.416666667 0.16666667 0.08333333 0.33333333 1 Using Robot with Computer Vision Capability 3 3 1 1 4 11 0.22727273 0.272727273 0.099999991	Mounting Camera with Computer Vision Technology	0.378577441 0.178872054 0.084806397 0.357744108 1 0.153047921 0.40764623 0.0740133 0.365292459		
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0.125 0.375 0.125 0.375

	Initial Acquiring Cost (lower better)	Required skills (lower training hour better)	Availability of aftermarket parts	Capability for modifications (upgradability)	Alternative Selection
Weight of Criteria	0.137	0.156	0.442	0.266	
Drone in Farming	0.04494631	0.378577441	0.153047921	0.151388889	0.173021601
Control Based Station	0.542992251	0.178872054	0.40764623	0.370833333	0.380658515
Using Robot with Computer Vision Capa	0.152201761	0.084806397	0.07401339	0.106944444	0.095124897
Mounting Camera with Computer Vision	0.259859677	0.357744108	0.365292459	0.370833333	0.351194988