

Adjustable Surface-Clamping Articulated Phone (ASCAP) Mount

Quality Function Deployment Document

	Correlation Matrix						
Dimensional Accuracy		+		+			+
Material Stiffness	+				-		-
# of Joints				-		+	
Surface Clamp Strength	+		-			+	
Length of Components		-					-
Weight of Assembly			+	+			
Angular freedom of Joints	+	-			-		

+	Positive
-	Negative
	Neutral

		Functional Requirements							Customer Targets and Ratings (Weighted 1-5)			
		Relative Importance	Dimensional Accuracy	Material Stiffness	# of Joints	Surface Clamp Strength	Length of Components	Weight of Assembly	Angular freedom of Joints	<u>AceTaken</u>	<u>QZTELECTRONIC</u>	<u>Pozliv</u>
Customer Requirements												
No wall mounting	25.00%	9	9	1	9	3	9	1	3	5	5	
Can be used with various phone models	3.57%	9	9	1	9	9	3	0	4	5	2	
Various viewing heights	7.14%	9	3	3	3	9	0	3	2	3	3	
Various viewing angles	10.71%	3	9	9	3	3	3	9	3	3	2	
Strong Device Grip	17.86%	3	9	3	3	1	3	0	2	4	2	
Rigid to avoid sagging	17.86%	3	9	3	9	3	9	9	2	2	2	
Affordable	7.14%	3	9	3	1	3	3	0	5	3	5	
Mountable anywhere	10.71%	3	3	3	9	9	3	9	2	4	3	

NONE	0
LOW	1
MED	3
HIGH	9

Targets							
5.14285	7.92857	3.07142	6.28571	3.92857	5.35714	4	
14.40%	22.20%	8.60%	17.60%	11.00%	15.00%	11.20%	
4	1	7	2	6	3	5	

Weighting Calculations

	1	2	3	4	5	6	7	8	Total	Weight %
1	1	1	1	1	1	1	1	1	7	25.00%
2	0	1	0	0	0	0	1	0	1	3.57%
3	0	1	1	0	0	0	1	0	2	7.14%
4	0	1	1	1	0	0	1	0	3	10.71%
5	0	1	1	1	1	1	1	0	5	17.86%
6	0	1	1	1	0	1	1	1	5	17.86%
7	0	0	0	1	0	0	1	1	2	7.14%
8	0	1	1	0	1	0	0	1	3	10.71%

1	No wall mounting
2	Can be used with various phone models
3	Various viewing heights
4	Various viewing angles
5	Strong Device Grip
6	Rigid to avoid sagging
7	Affordable
8	Mountable anywhere