

Project: 15043

Rqmt. #	Importance	Source	Function	Engr. Requirement (metric)	Unit of Measure	Marginal Value	Ideal Value
S1	9	CR1	System Operation	Provide 90 degree detection range in front of user	Degrees		90
S2	9	CR1	System Operation	Signal detection of obstacles	Binary		Pass
S3	3	CR2	System Portability	Adds no more than 1 lb to standard white cane	Lbs		1
S4	3	CR3	System Assembly	Decrease amount of visible hardware by 50% compared to P14043	Pieces	15	10
S5	3	CR4, CR5	System Operation	8 hour rechargeable battery (minimum battery life)	Hours		8
S6	3	CR6	System Portability	Collapsible into 8-10" sections	Inches	10	8
S7	3	CR7	System Cost	Manufacturing cost \$125 or less	USD		125
S8	9	CR1	Systems Operation	Intuitive Haptic Feedback	Binary		Pass
S9	3	CR9	System Usability	than 1 minute	Minutes		1
S10	9	CR10	System Operation	Horizontal detection range	Feet	6	10
S11	3	CR12	System Operation	Maximum pressure feedback can withstand	psi	3	5
S12	3	CR12	System Structure	Handle contents fit within handle mock up envelope	Binary	Pass	Pass
S13	9	CR12	System Structure	Maximum handle grip diameter	in	1.5	1.3

Importance: Sample scale (9=must have, 3=nice to have, 1=preference only), or see Ulrich exhibit 4-8.