

Revision #1:

Dynamic Keyboard Phase 2

Customer Need #	Importance	Description	Comments/Status
CN1	1	Ability to portray emotion through normal use, or learned ability	Enhanced via electrical sensors within the keyboard
CN2	1	Integration to PC through standard connections	PS/2 or USB
CN3	1	Ability to differentiate individual key strike events, and associate them to a corresponding sensor events in time.	Maintain the integrity of the sensor work done by previous group when applied to complete keyboard.
CN4	1	Establish a high level of device precision	Low error margin
CN5	2	Minimized end user cost.	Reduce complexity & parts/manufacturing costs
CN6	2	Device durability	Through normal use (part integrity)
CN7	2	Device durability II	Critical failure (spilled drinks, being dropped etc.)
CN8	2	Portability	Weight is not in excessive range with added parts
CN9	2	Low maintenance	Monthly maintenance or less on average
CN10	2	Ease of maintenance	Easy to fix for common problems & normal wear
CN11	2	Within budget constraints	Goal is \$900 or less of \$1090
CN15	2	Keyboard contains number pad	Separate number pad similar to standard keyboards
CN12	2	Linear tactile feedback	
CN13	3	Ergonomics	Comfortable use
CN14	3	Backlighting	To help with low light visibility
CN16	3	Aesthetics	Modern/Contemporary look & materials
CN17	3	Sensors in number pad	
CN18	3	Expanded functionality	Sensors in keys that can easily be given extended functionality to provide a more dynamic interface outside of the emotional context.
CN19	3	Single Cable Keyboard Connection	

Importance: (1=must have, 2=nice to have, 3=preference only)

Updated 1/11/09