

## Team Blue Product Contract: eyeDot

**Product Description:** Braille label maker with standard 6-button technology

**Intended Customer:** Visually impaired people fluent in Braille

**Market:** Assistive devices, U.S.

Customer Need	Attribute	Metric	Unit	Value	Owner
convenient to carry on everyday errands	portability	weight	lbs	<1.5 lbs	Isa
easy to handle	geometric shape	length	inches	4 - 8.5	Rachel
		width	inches	4 - 5.5	Rachel
		height	inches	1 - 3.5	Rachel
		ratio of product typing speed to 3M typing speed	unitless	> 2	Rachel
can emboss quickly	typing speed				
long product life	reliability	time until product needs servicing	hours of use	> 50	Michelle
durable	robustness	survival during 6-foot drop test	binary	yes	Xiao Wei
easy to peel adhesive backing	ease of peeling adhesive backing	time to start peeling	seconds	< 5	Jennifer
easy to reload tape	time to add new role of tape	time to remove tape roll, add new roll, and manually feed tape	minutes	< 2	Isa
easy to reload battery	time to add new batteries	time to replace batteries	seconds	< 60	Kwame
physically easy to type	force per button stroke	force	ounces	2.0 - 5.0	Kwame
easy to trim	force to trim	force	ounces	< 30	Adelaide
quiet	sound	decibels	dB	< 50	Sarah
comfortable to use	shock	noticeable vibration	binary	no	Nicole
comfortable to use	wrist abduction	angle	degrees	< 26	Kwame
minimize excess blank tape	length of excess tape on each end of label	length	inches	< 0.15	Wenxian
long-lasting portable power source	battery life	number of characters per battery life	unitless	> 500	Xiao Wei
simple, intuitive to use for people fluent in Braille	learning curve	time to feel comfortable using product	number of labels made	< 5	Rachel
safe	exposure to moving parts	ability to touch moving/sharp parts while replacing tape or batteries	binary	no	Isa
low cost	shelf cost	price	dollars	< 100	Andrew
embossed Braille is readable	repeatability of character embossing	percentage of typed characters that are misprinted	percent	< 0.5	Sam
	dot geometry	dot height	inches	0.020 ± 0.001	Josh
		dot spacing	inches	0.090 ± 0.005	Josh
		distance between corresponding dots in adjacent cells	inches	0.240 ± 0.015	Jodie
	cell centering on label	distance from top of tape to middle row of Braille cell	inches	0.250 ± 0.015	Karina