

自游視
SVIM 2.0





問題歸納 *Conclusion* |

綜合以上的內容，我們希望能幫助視障者在游泳偏離泳道和即將遇牆時主動給予提醒，發生溺水狀況的時候也能在第一時間被注意到，讓照護者能對視障者獨立從事這項運動更安心。

To sum up, we hope that the visually impaired are informed previously to avoid bumping into walls and deviating from right path. In addition, they can be noticed immediately when drowning happens. As such their guardian will feel reassured when they swim by themselves .

草模測試 *Prototype* |

穿戴式裝置方面，我們做了草模測試舒適度、穩定性、穿戴便利性及按鍵的使用性，也模擬使用的情形，過程中實際訪問視障者使用產品的習慣，並修正我們的草模。而在環境感應裝置方面，則是測試了與環境固定的方式及放置導盲杖的功能。

We made prototypes to test the comfort, stability, convenience and button usability. We also simulated the situation when using it and modified the prototype with the help of our users' feedback.

For the environmental sensors, we tested the fixation and accommodation of the blind cane.



使用流程 Process of Using |



- 業者將擺把下壓，把立牌固定於泳道兩側，隨後開啟電源。

Dealers set up SVIM sign stand at both ends of swimming lane. Fix it up and switch on the power.



- 視障者戴上泳鏡，並開啟電源。

Users put on the SVIM goggles and turn on the power.



- 當接近立牌時，SVIM 泳鏡提示使用者立牌就在附近。

When approaching the environmental sensor, the headset will alert users.



- 找到立牌上放置導盲杖的圓孔，將導盲杖摺疊後放入，並利用點字記住位置。

Users lay down their tactile stick, touch the braille and memorize the position.



- 游泳時，遭遇各種突發狀況，SVIM 泳鏡給與回饋與提醒，同時記錄相關運動數據，並上傳雲端。

Conditions happen while swimming, SVIM goggle gives feedbacks and record the data instantly by cloud.



- 上岸，根據點字拿取導盲杖。

After swimming, users take back their tactile stick according to the braille.



- 回家後擦拭 SVIM 泳鏡並充電，另外打開 APP 了解今天的運動情況。

Users dry the goggle and charge it. They may also have their latest swimming records on app.