



BLUEPRINT E-Glasses

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EXECUTIVE SUMMARY

E-Glasses offers a whole new level of experience with multifunction of a glasses. The E-Glasses was presented with trendy design and being installed with latest technology such as sensor, camera, augment reality, anti sleep function, Wi-Fi, Bluetooth, and GPS system. This product will solve the problem of difficulties in taking picture, recording a video, during navigation process and will help in prevention of dozing off in certain circumstances. E-Glasses aimed to ensure easy and trendy lifestyle of the user in this millennial era. The target market for the E-Glasses are those who have a high enthusiasm in latest technology and those who loves travelling. Since the E-Glasses will be the first multifunction glasses that available in Malaysia, it is believed that this product can break through the Malaysian Market due to high demand of latest technology nowadays. The E-Glasses will be sold at a price of RM 3091.50.

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CHAPTER 1

PRODUCT DESCRIPTION

1.1 Introduction

- The product is an Evolution Glasses that best known as E-Glasses.
- The E-Glasses is one of the smart glasses that contain multiple of functions regarding latest technology that will ensure the easier lifestyle among user.
- Currently in Malaysia, a glasses with multifunction is still not available in any store.
- The team had decided to design the E-Glasses to fulfil the desire of users regarding latest technology.
- In this millennial era, people are searching for the easiest way in getting things done, including the simplest yet trendy style of using a camera and navigation system.

1.2 Purpose of development

1. To provide an easy lifestyle during snapping a picture, recording a video and for navigation purposes.
2. To provide a way to prevent dozing off during certain circumstances such as during driving.

1.3 Product Concept

- E-Glasses was designed based on high technology that combined with camera function, GPS function, augment reality technology and anti sleep function, by using glasses as a medium.
- The E-Glasses is user friendly and can be operated hands free by the user.
- It is design uniquely to make the user's lifestyle easier and trendy at the same time.

1.4 Application

The E-Glasses can be operated easily with the customized application called E-Glasses Apps that need to be installed in the smart phone. The application is free of charge and can only be activated with the E-Glasses's presence, which was connected using Bluetooth. Moreover, there are many other devices that were installed in the E-Glasses such as sensor and wireless charging plate.

1.4.1 Functions

- Retina sensor – E-Glasses will be activated and deactivated using this sensor. Once the user put on the E-Glasses, the retina sensor will play its role and automatically activate the E-Glasses. If the user take off the E-Glasses and fold the temple, it will automatically deactivate as the sensor is not detecting any stimulus (retina).
- Eyelid sensor – This sensor responds only to consciously strong blinks of the eyes, either double blinks for snapping picture or triple blinks to start and stop video recording.
- Control system – The E-Glasses was controlled by using E-Glasses Apps that can be downloaded in Apple store and Play store.
- Augmented Reality (AR) Technology and GPS Navigation System - The location will be set in the E-Glasses Apps and then it will link with the GPS system to provide a direction towards the destination. The Augmented Reality Technology will project the 3D image of an arrow showing the direction in the real life view through the lens of the E-Glasses.
- Anti Sleep function - Anti-sleep function will prevent the user from fall asleep whether in classes and while driving. Anti-sleep system can be activate and deactivate in the E-Glasses Apps. The sensor will detect if the user unconsciously close their eyes for more than 3 seconds (doze off) and start to vibrate with the frequency from 30 Hz to 60 Hz.