Customer Requirements

**SAG Glasses**

**ـــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

Table of Contents

[Document Status: 1](#_Toc118458224)

[Document History: 1](#_Toc118458225)

[Project Description: 2](#_Toc118458226)

[Requirements Mapping: 2](#_Toc118458227)

# Document Status:

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# Document History:

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| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Reham Essam | [11-9-2022] | Initial Creation |
| 1.1 | Jana | [20-9-2022] | Edit Key Elements |
| 1.2 | Omnia | [23-9-2022] | Add key elements and features |

# Project Description:

Definition:

The Design of the project is The ECU closed around the head, between the two lenses of the The ECU there is a camera, on the right hand there is a power button , flash and mic , on the left side there are three buttons and a speaker.

Features:

* The ECU’ features can be controlled by the user through buttons.
* The ECU have two modes (Day mode - Night mode).
* The ECU can capture images.
* The ECU support the voice command.
* The ECU can speak.
* ECU protection and maintenance.

Key Elements:

* The ECU shall have a button to turn it on/off.
* The ECU shall have a button to control the headphone sound.
* The ECU shall have a button to enable/disable image caption feature.
* The ECU shall have a button to enable/disable voice commands.
* The ECU shall detect the night/day mode using LDR.
* The ECU shall have a camera that supports real-time capturing.
* The ECU shall have a microphone through which it receives voice commands.
* The ECU shall have headphones to play any audio.
* The ECU shall keep tracking voltage and temperature level.
* The ECU shall decrease heat using a DC fan.

# Requirements Mapping:

|  |  |  |  |
| --- | --- | --- | --- |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_001-V1.1 | **Mapping** | The ECU shall have a button to turn it on/off. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_002-V1.1 | **Mapping** | The ECU shall have a button to control the headphone sound. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_003-V1.1 | **Mapping** | The ECU shall have a button to enable/disable image caption feature. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_004-V1.1 | **Mapping** | The ECU shall have a button to enable/disable voice commands. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_005-V1.1 | **Mapping** | The ECU shall detect the night/day mode using LDR. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_006-V1.2 | **Mapping** | The ECU shall have a camera that supports real-time capturing. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_007-V1.0 | **Mapping** | The ECU shall have a microphone through which it receives voice commands. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_008-V1.2 | **Mapping** | The ECU shall have headphones to play any audio. |
| **Req\_ID** | PO\_SAG\_CR\_THE ECU\_009-V1.1 | **Mapping** | The ECU shall decrease heat using a DC fan. |