**Product Requirements Document**

**Smart Mirror for Electric Rechargeable Power Toothbrush - Draft Version**

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# **Table of Contents**

[Overview](#_tyjcwt)

[Priority Description](#_3dy6vkm)

[Product Requirements](#_4d34og8)

[Industrial Design](#_2s8eyo1) (Giang)

[Display Screen](#_17dp8vu) (Đạt)

[Connectivity](#_3rdcrjn) (Chí Bảo)

[Durability](#_26in1rg) (Chí Bảo)

[Packaging](#_lnxbz9) (Bảo Quốc)

[Out of Box Experience (OOBE)](#_35nkun2)

[Security & Privacy](#_1ksv4uv)

[Regulations & Certifications](#_44sinio)

[Serviceability & Warranty](#_2jxsxqh)

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# **Overview**

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| --- | --- |
| **Internal Name** | SecureEntry |
| **External Name** | CodeMaster Secure |
| **MSRP (Solo)** | $A - US; $B - CAN; € - EUR |
| **MSRP (Bundle i.e. with toothbrush)** | $A+C - US; $B+D - CAN; €+F - EUR |
| **Channel** | Online Only |
| **Launch Target** | Q2 2024 |

The SecureEntry digital door lock is a cutting-edge security solution designed to enhance home safety. It provides advanced features such as keyless entry, remote access control, and real-time monitoring. Users can manage access to their homes conveniently and securely.

The SecureEntry digital door lock can be purchased individually or as part of a bundle with a comprehensive home security system. The bundle includes features like security cameras, sensors, and a central control hub for a complete smart home security solution.

The target audience for SecureEntry is homeowners and tech-savvy individuals who prioritize convenience, security, and smart home integration. It is suitable for those looking to upgrade their home security systems with modern, digital solutions.

# **Priority Description**

**P0:** Must Have Requirement i.e. Product will not launch without it

**P1:** Not a requirement for launch but is needed 3-6 months post-launch

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# **Product Requirements**

### **Industrial Design (GIANG)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| I.1 | Digital Door Lock Type | Must have ability to unlock using numerical code | P0 |  |  |
| I.2 | Power Source | Operates on batteries and must have a charging port or backup battery | P0 |  |  |
| I.3 | Visual Interface | Shall have an LCD display | P0 |  |  |
| I.4 | Code Management | Should have the ability to remotely manage and change access codes | P0 |  |  |
| I.5 | Connectors | Shall have a USB-C port | P0 |  |  |
| I.6 | Material | Must be made of water-resistant and scratch-resistant materials | P0 |  |  |
| I.6 | Size | Size should be suitable for standard doors | P0 |  |  |

### **Display Screen (ĐẠT)**

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| --- | --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| II.1 | Physical Keypad Interface | A physical keypad that allows users to enter a passcode. | High | Durable and weather-resistant keys, able to register and recognize input patterns. | Consider options for key layout and tactile feedback. |
| II.2 | Smart Connectivity | Connectivity to smartphones or smart home systems for remote access and monitoring. | Medium | Wi-Fi or Bluetooth connectivity, compatible with popular smart home systems. | Security of remote access needs to be ensured. |
| II.3 | User feedback | Display provides visual feedback such as locked/unlocked status, battery life, or unauthorized access alerts. | High | Clear and intuitive icons or messages on the display. | Feedback should be easily understandable at a glance. |

### **Connectivity (CHÍ BẢO)**

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| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| III.1 | Bluetooth Low Energy (BLE) | Shall utilize BLE during setup and discovery when the door is locked or opened | P0 |  |  |
| III.2 | WiFi Frequency Bands | Shall operate on both 2.4GHz and 5GHz | P0 |  |  |

1. **Power (CHÍ BẢO)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| IV.1 | Power | Li-Ion rechargeable battery  Power input range of 12V to 15V | P0 |  |  |

### **Durability (CHÍ BẢO)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| V.1 | Humidity | Shall be fully functional and operational under 100% humidity | P0 |  |  |
| V.2 | Operating Temperature Range | Shall be fully functional and operational within the range of 32℉ (0℃) to 120℉ (49℃) | P0 |  |  |
| V.3 | Lifetime | Shall last for at least 20 years | P0 |  |  |
| V.4 | Impact resistance | Materials with good impact resistance can absorb and distribute the energy of an impact, preventing or minimizing damage |  |  |  |

### **Packaging (BẢO QUỐC)**

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| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| VI.1 | In the box | Included in the box are:   * Pin Alkaline * Digital door kit (Keypad, LCD, Circuit Board) * Quick start guide * Legal Doc | P0 |  |  |
| VI.2 | On the Box | Box with product picture and highlight features on the box | P0 |  |  |

### **Out of Box Experience (OOBE) (BẢO QUỐC)**

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| --- | --- | --- | --- | --- | --- |
| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| VII.1 | Time to Install (Physical Installation) | Shall be physically installed within 5mins or less | P0 |  |  |
| VII.2 | Software/Firmware Setup | Overall software setup shall be done in 10mins or less | P0 |  |  |
| VII.4 | Data Storage | User password, time enter | P0 |  |  |

### **Security & Privacy (BẢO QUỐC)**

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| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| VIII.1 | Password Protection | Shall utilize encryption and account credentials of the user | P0 |  |  |

### **Regulations & Certifications (BẢO QUỐC)**

*Assuming this will be launched in the Viet Nam first, then the certification tests might be :*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Region** | **Compliance/Certifications** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| IX.1 | Viet Nam | * CR * QCVN * QCVT * ISO 9001 | P0 |  |  |

### **Serviceability & Warranty (BẢO QUỐC)**

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| **#** | **Feature/Characteristic** | **Product Requirements** | **Priority** | **Technical/Engineering Specifications** | **Comments** |
| X.1 | Warranty | Shall have a 1-year Warranty on parts | P0 |  |  |
| X.3 | Repairs/Returns  Process | Shall adhere to the returns and repair process | P0 |  |  |