



الْأَبْوَابُ سَبِيحًا تَبْكُمُ اللَّيْلُ فِي حُجْرٍ مَّارًا  
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# SMART BIDET (BLUEPRINT)

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## CHAPTER 1

### 1.0 PRODUCT DESCRIPTION

#### 1.1 Introduction

The product to be developed is a Smart Bidet (SB). Toileting is one of the basic human needs in daily life either for normal people or people with impairment. Malaysia still using a traditional bidet which is less friendly for people with difficulty or impairment. This will reduce independency in toileting activity among people with disability.

This idea is derived from the team observation and ongoing studies at the hospitals around Malaysia, where the team discover that our society are still using a traditional bidet that currently is less friendly towards patient who come with a lot of difficulty and sometimes needs them for manually handling. Therefore, the team company took an initiative to develop a *new product that is well equipped, systematic and more effective in terms of usage*, complete with high functioning features so that the patients will be able to use it without any difficulties.

#### 1.2 Purpose of development

The purpose of the development of this product is to promote independency in Activity of Daily Living (ADL) especially in toileting area among our client, especially those patients who are visiting or is warding to the hospitals in Malaysia that having difficulty to perform the toileting activity because of the physical disabilities. Through this newly design and developed product, our client will be able to perform the task required to perform toileting activity without any help from others or in short, independent.

#### 1.3 Product Concept

- This product was design specially for people with physical disabilities.
- This product encourages people with physical disability to be independent in toileting.

## 1.4 Application

### 1.4.1 Functions

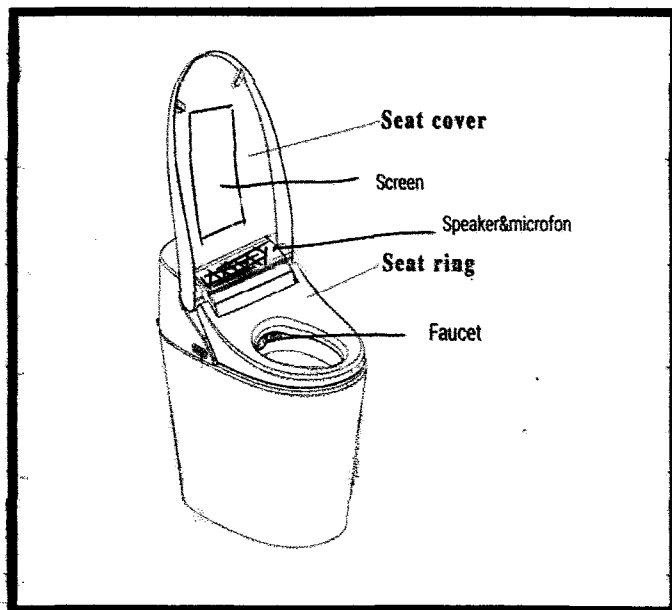
- Bidet: Automatic function that operated by a voice command and wireless remote control
- Dryer: To dry after someone performing toileting
- Warm seat: Make the seat remain warm
- Monitor screen: User to applying all the system in the Smart Bidet
- Speaker and microphone: Input and output of information the Smart Bidet
- Sensor: For detection the user when performing toileting
- Faucet: To clean after performing toileting
- Remote: To operate all the function and system of the Smart Bidet.

## 1.5 Unique features

The uniqueness of the product for availability in Malaysia market consists of:

- Operate by a voice command as primary remote.
- Come with pre-installed application to detect the composition of urine for early screening.
- Automatic dryer.

### 1.5.1 Picture



description

