# Description

Apart from flashing the Raspbian operating system into the SD card, the entire system setup and configuration required to operate the ophthalmoscope is automated. This instructions manual guides the user through the process of initiating the system setup script.

# Methodology

The following steps will guide the user as to how initiate the automated system setup;

1. Download the latest image of [Raspbian](https://www.raspberrypi.org/downloads/raspbian/) and extract the contents of the downloaded .zip file.

Note: Make sure to install the full image and NOT the minimal image as the minimal image is stripped down of important features and packages required for proper operations of the ophthalmoscope program.

1. Burn the image into a SD card;

Note: It is imperative to use a 16GB (recommended) or more SD card.

* 1. Download the appropriate version of [Etcher](https://etcher.io/) depending on your current operating system.
  2. Plug the SD card into a SD card reader and or adaptor for the PC.
  3. Run Etcher.
     1. Click on **Select image** and choose the extracted .img file of the Raspbian operating system.
     2. Click on **Select drive** and choose the SD card.
     3. Click on **Flash!** and wait for the program to finish.

1. Insert the SD card into the SD card slot in the Raspberry Pi and wait for it to boot.
2. Clone CustomRaspbian GitHub repository;
   1. Start a Terminal session
      1. *sudo git clone https://github.com/pd3d/CustomRaspbian*
   2. Run setup script
      1. *sudo ./CustomRaspbian/initialSetup\_ophto.sh*

Note: System setup may take a while [~3hrs]