

A Passage Lamp With Home Assistant

What is a passage lamp?

- A passage lamp is an automatic light that comes on to allow passage through a room or hallway when it is dark.
- Commonly used outside for security lighting or allowing access to buildings.
- Now also available for internal passageways.
- If you have a home automation system such as Home Assistant, you can make one yourself and customise it.
- Two different methods:
 - Use a remote controlled light bulb, such as a Hue bulb.
 - Use a remote controlled socket to switch on and off a standalone lamp, which is what I am doing today.

Requirements

- A 24/7 computer running Home Assistant (HA). This can be an existing machine or one reserved for HA. There are custom HA platforms available, or you can use a Raspberry Pi or similar small PC.
- I use HA in a docker container on my main Ubuntu PC, which is also my Internet server box (web, DNS, email, Nexcloud, ...).
- For this demonstration, HA is installed in docker on my laptop.

Parts List

Zigbee coordinator: Sonoff Zigbee 3.0 Dongle Plus (including USB extension cable to keep the Zigbee coordinator away from the interference from USB 3.0 ports) [Sonoff]	\$43.55
Philips Hue Smart Plug (socket) [Noel Leeming]	\$71.00
Cheap table lamp (Living & Co Aria Desk Lamp White) [The Warehouse]	\$15.00
Light bulb (small E27 4 watt) [Bunnings]	\$10.00
PIR x2 (Mi Motion Sensor) [Amazon.com]	\$53.03
Light sensor (Aqara Light Sensor T1) [Ali Express]	\$30.00
TOTAL	\$222.58