

Marilyn M. Project – Detailed view (v1)

By Bill Weis

Requirements:

1. Be able to use voice commands to control her TV
2. Be able to use voice to call the nurse

Solution – High Level:

1. We provided an Amazon Fire TV Cube so Marilyn could use voice commands to control her TV
2. We designed a voice activated nurse call solution for Marilyn to be able to call the nurse.

Details of the Solution

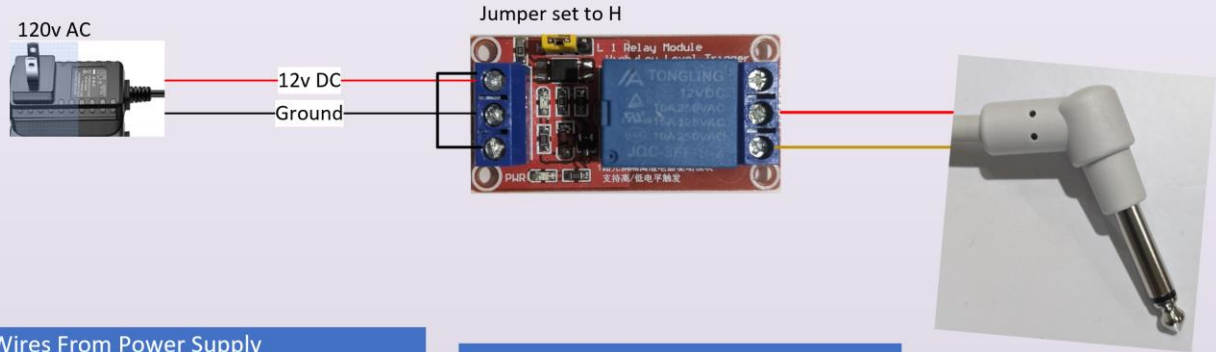
1 - Be able to use voice commands to control her TV - Marilyn has Parkinson and is losing the ability to use her hands to depress the nurse call button and to control her TV. To help Marilyn use voice commands to control her TV, we provided a Amazon Fire TV Cube.

2 - Be able to use voice commands to call the nurse - We designed a Nurse call solution which requires an Amazon echo dot, an Amazon Smart Plug, and a small custom relay box with a standard nurse call cord attached. Essentially, when the relay box gets power from the Smart plug, it closes the contacts to the nurse call cord simulating a button push. The trick is setting up the Amazon routine with three actions.

1. **Action 1 - Turn on the Smart Switch**
2. **Action 2 - Wait 5 seconds (This is the shortest duration that is possible)**
3. **Action 3 - Turn off the Smart Switch**

Here is a picture of the solution.

Nurse Call Button S/N CB13



Wires From Power Supply

Red -> +12v to "+DC" terminal
Black -> Ground wire to "-DC" terminal
Jumper wire connects "+DC" terminal to "In" terminal

Power supply plugs into Smart Switch

Amazon Smart Switch controlled by custom routine
Routine turn on Smart switch for 5 sec, then turns off

Wires to Wall Connector - Phono

Red wire to relay Common terminal
Brown wire to Relay Normally Open terminal

Parts Needed

12v Power Supply - Sansun (Amazon) \$5.18
12v Relay board - (Amazon) \$1.50
Nurse call button - (Amazon) \$18.95
Awclub Waterproof Dustproof ABS Plastic Junction Box \$6.79

Resources

[Amazon Echo](#)

[Alexa Support](#) (Contact Support via the Amazon Alexa app - can have them call your number)

[Fire TV: Amazon Digital and Device Forum \(amazonforum.com\)](#)

Fire TV Cube Support **888-280-4331**