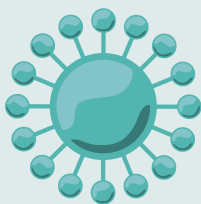# Visual Soap Dispenser

v.Sodi

Vision

v.Sodi is the first automatic Soap Dispenser with an integrated display of the required washing time and visualization of the already washed areas. It reduces the spread of viruses across high-risk areas such as public toilets.
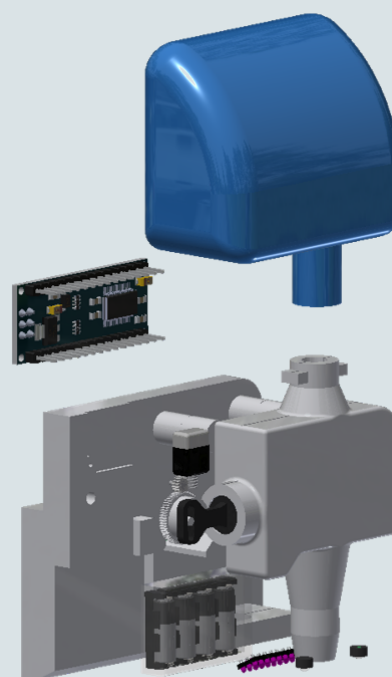
Why

80 percent of all infectious diseases such as COVID-19 are spread through the hands. One way to curb the spread of the virus is to wash your hands regularly for about 40 seconds. It is important to rid all areas of potential pathogens and wash your hands, for example, according to the procedure of the WHO:

Duration of the entire procedure: 40-60 seconds

0 Wet hands with water;

1 Apply enough soap to cover all hand surfaces;

2 Rub hands palm to palm;

3 Right palm over left dorsum with interlaced fingers and vice versa;

4 Palm to palm with fingers interlaced;

5 Backs of fingers to opposing palms with fingers interlocked;

6 Rotational rubbing of left thumb clasped in right palm and vice versa;

7 Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa;

8 Rinse hands with water;

9 Dry hands thoroughly with a single use towel;

10 Use towel to turn off faucet;

11 Your hands are now safe.

Devpost

Visit us:
https://devpost.com/software/visodi

How it works

- v.Sodi can easily be 3D printed for your personal use and hooked up together.
- For fuorescent dye Illumination during washing v.Sodi can be mounted above your sink.
- Electronics consist of an ardunino nano with standard sensor kit and ordinary LED of a black flash light.
- Fluorescent dye in the soap solution is fully harmless for medical purposes.

Display shows your required hand washing steps.

The Fluorescent Soap is commercially available.

Photodiodes detect hand presence.

Black flash light LED for hygiene visualization.

Fluorescent Soap foam dispensing unit.

Result:

unwashed

Hand-washed with soap for 30 seconds

CAD files

Open Source CAD files for 3D printing. Download now!
https://t1p.de/w5g4

Product Video

https://t1p.de/iq0w