

## **Pointcloud\_Program\_Manual**

- 1. Running the Program as a Service**
  - a. Creating a Systemd Service**
  - b. Enabling and Starting the Service**
  - c. Service Commands**
- 2. Running the Program Manually**
- 3. Software Directory Structure**

- 1. Running the Program as a Service**
  - a. Creating a Systemd Service**

**To run the program as a service for the first time (already done), and to see the display on startup:**

**i. Create a new systemd service file:**

```
sudo nano /etc/systemd/system/kiosk.service
```

**ii. Add the following content to the file:**

[Unit]

Description=Kiosk Service

After=network.target

[Service]

User=pi

Environment="DISPLAY=:0"

WorkingDirectory=/home/pi/3dview

ExecStart=/usr/bin/python3 /home/pi/3dview/your\_script\_name.py

Restart=always

RestartSec=5s

[Install]

WantedBy=multi-user.target

**iii. Save the file and exit the editor (Ctrl+X, Y, Enter).**

- b. Enabling and Starting the Service**

**Reload the systemd daemon and enable the service:**

```
sudo systemctl daemon-reload
sudo systemctl enable kiosk.service
```

### **c. Service Commands**

**In case you cannot see the display on startup, run these commands in sequence:**

```
sudo systemctl start kiosk.service
sudo systemctl status kiosk.service
```

```
sudo systemctl stop kiosk.service
sudo systemctl restart kiosk.service
```

## **2. Running the Program Manually**

**To run the program manually through terminal command**

```
sudo systemctl stop kiosk.service
cd 3dView
sudo python kiosk.py
```

## **3. Software Directory Format**

```
/home/pi/3dview
|--- 3dview
|--- app.py
|--- templates
|   |--- pcl_view_json.html
|   |--- voxel_pcl_viewer.html
|--- static
|   |--- pointcloud.json
|--- kiosk.py
|--- viz2.py
```