# Instructions:

1. Upload Arduino code (SDCard or OLED) from “arduino files” to CosmicWatch detector(s). They have one line modified from:

   ```
   Serial.println("Device ID: " + (String)detector_name);
   ```

   to:

   ```
   Serial.println("DetectorID: " + (String)detector_name);
   if(MASTER == 1){Serial.println("DetectorMode: Master");}
   else{Serial.println("DetectorMode: Slave");}
   ```

   Original code for Arduino can be found there:
   https://github.com/spenceraxani/CosmicWatch-Desktop-Muon-Detector-v2
   Program will still work with the original code, but detector mode recognition might not work.
2. “Program files” consists of 3 logos and 2 python files. They all should stay in the same folder. Run the “GUI.py” using a Python interpreter. Required modules:
   - May require download: pyserial, numpy, pandas, pyqt5, matplotlib
   - Included in Python Standard Library: time, datetime, pathlib, threading, sys, webbrowser
3. Connect the detector(s) using USB A-Mini cable(s).
4. Select COM port and angle, input distance.
5. Press start.
6. Measurements folder should be created in GUI.py directory.

For more information about using the program and CosmicWatch detectors check the provided documentation.