

BG4102 Medical Device Design Instructions

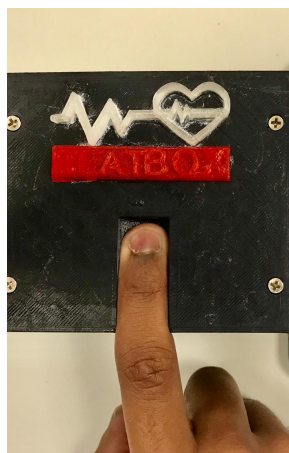
1. Switch on both switches by the side of the device.



2. Connect device to a phone's hotspot or router by editing the ID and password in Arduino Code.

```
char sendBuf [4];  
  
void setup()  
{  
  Serial.begin(115200);  
  
  WiFi.mode(WIFI_STA);  
  WiFiMulti.addAP("Hot spot/router ID", "Hot spot/router Password");  
  
  Serial.println();  
  Serial.println();  
  Serial.print("Waiting for WiFi... ");
```

3. Place finger on the device.



4. Type commands for the device to start running. The user needs PPG.pem in order to access the server. The key can be found in <https://github.com/pehxunwei/BeatBox>

```
Downloads — ubuntu@ip-172-31-30-134: ~ — ssh -i PPG.pem ubuntu@18.188...
Last login: Wed Nov 14 14:56:46 on ttys001
Xunister:~ xunister$ cd Downloads
Xunister:Downloads xunister$ ssh -i PPG.pem ubuntu@18.188.82.61
Welcome to Ubuntu 16.04.5 LTS (GNU/Linux 4.4.0-1065-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud

31 packages can be updated.
0 updates are security updates.

*** System restart required ***
Last login: Wed Nov 14 06:56:56 2018 from 155.69.160.75
ubuntu@ip-172-31-30-134:~$ python serverV2.py
```

5. Let the finger rest on the device to record the data.
6. Data will be shown on the app. You may access the app through the QR code.



P.S. The device is just a prototype, please do not be alarmed when you open the device. The two cables are used to connect to the oscilloscope.

