# PulseX Guide

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| Component | System State |
| 🔘 Button | User input (start/stop action) |
| ⚪ White LED | System ON/OFF (power state) |
| 🟡 Yellow LED | Error state (problem) |
| 🟢 Green LED | Recording (ECG acquisition) |
| 🔴 Red LED | Abnormal prediction |
| 🔵 Blue LED | Normal prediction |
| 🔊 Buzzer | Sound alert on abnormal prediction |

## How It Works

**To operate the PulseX system:**

Plug the charger into the Raspberry Pi to power on the system.  
Wait for the white LED to light up, indicating the system is ready.  
Place the stethoscope head over your heart.  
Press the button to start the recording — the green LED will turn on during recording and turn off when it ends.  
The system will analyze the heartbeat:  
Red LED + 🔊 Buzzer if the heartbeat is abnormal  
Blue LED if the heartbeat is normal  
The 🟡 Yellow LED will turn on in case of an error.  
You can press the 🔘 button again if you want to perform another diagnostic.  
You can enable or disable the 🔊 buzzer using the settings button located inside the box if needed.