

## Bot Connection

A button to connect the dashboard to the bot.

Control is via an external PS4 controller (not dashboard buttons).

## Sensor Data

### Ultrasonic Sensors

Visualized in 2D(simulation).*(2d models will be provided)*

Ultrasonic sensor feedback is shown as arcs or "buzzes" around the bot in real time.

### MQ-9 Gas Sensor

Detects Carbon Monoxide, Methane, and LPG levels.

Display live readings + individual graphs.

Display level as colored bars indicating concentration

### MQ-135 Gas Sensor

Detects general air quality.

Display live readings + individual graphs.

Display level as colored bars indicating concentration

## Cameras

Normal camera feed.

Thermal camera feed.

## GPS + Map

Real-time map with the bot's GPS location (dot marker).

Ability to select a point on the map and choose options: "Inspect" or "Go-To."

## Console

A console on the dashboard for sending custom commands to the bot.

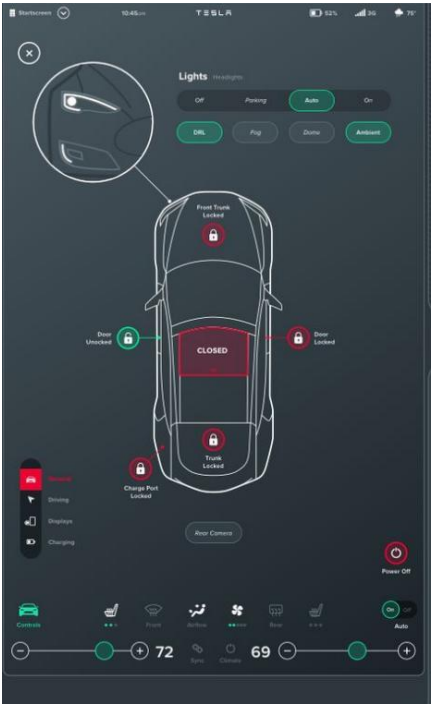
*(commands will be given as a list).*

## Data Logging

All sensor readings and GPS logs stored locally.

Later backed up to the cloud.

Ultrasonic sensor data



map



Camera feed



terminal

