

ABSTRACT

Government regulations regarding health protocols to always use masks and also ensure body temperature in a normal state when you want to visit a place. This also applies when you want to enter a place or room, you will check body temperature and also inform about the use of masks which are still using humans as a tool to check body temperature and the use of masks with this made a body temperature detection device and masks using ESP 32 Cam with sound features.

In this final project, a body temperature detection device and mask have been made, for the components used, namely the MLX90614 sensor which functions as a temperature sensor detector, Esp32 Cam functions to detect the use of masks on objects with a teachable machine platform as a tool for making detection models, has an output displayed on the LCD is the result detected on the temperature sensor, also the audio that Dfplayer emits on the speaker as a marker or warning on the object / person.

The MLX90614 infrared sensor will detect an object with a distance of 1 cm - 3 cm, when it exceeds that distance, a warning will come out on the LCD to bring the object's body closer to the sensor. In the detection of masks as well as Esp32 Cam, the detection process requires a distance of 15-30 cm to produce a maximum detection value.

Keywords: Platform, Infrared, LCD, Esp32 Cam, Teachable Machine, Output, Arduino