

## ABSTRACT

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*In general, smokers are often found in the environment, many of the losses caused by cigarette smoke in addition to disturbing, cigarette smoke can also harm health if active and passive smokers because cigarette smoke carries many adverse effects, in certain places there are restrictions that do not allow someone to smoke for example, also public health facilities namely hospitals, there are still many people who smoke in the room or patient's room even though it has been explained the smoking ban in the hospital. Based on the above problems, a cigarette smoke detection system was created with a sound notification feature and photo recording. The system created can detect cigarette smoke using the MQ-2 Sensor, Capture images when smoke is detected by sensors using the Camera VC0706 and save images using the SDCard Module. The system can also send images to the telegram using NodeMCU and can activate warning sounds using the ISD1280 Module. Based on the test results, this system can detect cigarette smoke starting at 250 ppm, recording and storing images, sending images to the Telegram and activating warning sounds.*

*keywords: MQ-2 sensor, smoke detection, TTL camera, Telegram*