ABSTRACT

The development of advanced technology, and make it easier for people to meet their daily needs. This progress can be seen by the number of electronic devices that can help or facilitate human work to become more efficient. One of them is the use of active speakers which is still done manually which causes several problems in connecting the speakers to the device, namely the distance between the speaker and the far device which makes it ineffective in terms of cost (cables) and convenience for users. The researcher wants to make a solution by making an active speaker device using a laser as the transmission medium. This research uses a microcontroller based on NodeMCU Esp8266. The results of this research design show that active speakers can be connected to a device using a laser as the transmission medium, however, the results of this study also show that a laser is a digital module that cannot transmit data yet, and the laser only acts as a sensor that functions to control active speaker power which is ON / OFF.

Keywords: *Laser, NodeMCU Esp8266, Speaker Active.*