

ABSTRACT

Visible Light communication is a communication medium that uses light as its transmission medium. With this media is expected to be an alternative in sending information with a greater capacity and a relatively short time. This research is the development of Visible light Communication research which uses visible light as a communication medium in order to transmit data in the form of video. This communication system uses Arduino as a microcontroller which functions to perform data processing, using a Light Emitting Diode (LED) as the main component in the Transmitter circuit and Photodiode as the main circuit for the Receiver circuit, based on tests that have been carried out this system is able to send video with a maximum capacity of 1 .36 MB with a maximum distance of 8 cm in bright conditions.

Keywords: Visible Light Communication , Transmitter, Receiver, LED, Photodiode.