

ABSTRACT

VLC system moves in a wireless communication system, which was developed into a communication system LiFi for future technological advances. Until now the development of VLC general public is still not known primarily for voice communication.

Is this final project is designed and realized LiFi communication systems for voice communication. VLC communication system designed at the end of this project consists of a transmitter and receiver blocks. In this design simulated light communication system using two tools, namely LED flashlight and a headset as the sender and receiver.

From the test results within range for VLC voice communication as far as 5 meters. The greater the angle of the light source, semakain clear sound captured by the receiver.

Keywords: VLC, LEDs, Transmitter, Receiver, Headset