

ABSTRACT

Light led now began to be widely used, one for led-led home light that is not only used as lighting alone but as the development of technology led can be used for communication media. Visible Light Communication is a communication technology that utilizes visible light emitted from led in communication system as transmission medium.

In this final project developed VLC system for text delivery. Text is sent from the sender side with a series of transmitter block with transistor and led as sender. The submitted text is then received at the receiving end through the receiver block using the photodiode as a catcher of information sent from the sender.

The result of this final project is seen when pengukran with the furthest distance of 60 cm device can not accept text and at the lowest distance measurement that is 10 cm very low delay. In the measurement of lumens the largest value when measured in the bright room with a distance of 10 cm at a 0° angle of 560 x 100 lux, and the lowest lumens when measuring at a distance of 60 cm at 90° angle of 0.11 x 1 lux.

Keywords: technological development, visible light communication (vlc), digital data transmission, Tera Term.