ABSTRACT

UAV (Unmanned Aerial Vehicle) is an unmanned flying machine that can be controlled remotely and can be used for civilian and military, for example, to monitor that can be documented in the form of video using a camera mounted on the aircraft. FPV (First Person View) is a remote control (RC) as if driving yourself. Currently, the development of wireless technology progress rapidly. Antenna has been highly developed one further generation can be imagined is an antenna that has the simplicity, both in terms of form and use.

In this study, the type of antenna used on quadcopter is a cloverleaf antenna mounted on the transmitter and receiver with a frequency of 5.8 GHz which is used as a tool to maximize shooting from the air.

The results of this study indicate omnidirectional radiation pattern with circular polarization and a low VSWR at a frequency of 5.8 GHz. From these results, the cloverleaf antenna is suitable for use in quadcopter because in addition to having a light weight can also maximize distance video transmission and reception.

keywords : *quadcopter, cloverleaf antenna, Unamnned Aerial Vehicle (UAV), First Person View, transmitter, receiver*