

ABSTRACT

In an easy time, many activities are demanded to facilitate everything quickly and easily. Some activities can be carried out easily without human intervention. Like to take pictures or to monitor a situation can use a drone. Drones or often called Unmanned Aerial Vehicle (UAV) are unmanned aircraft that fly by being controlled by a computer or remote control.

One of the advantages of a drone is a drone that can fly in all directions. With these advantages, drones can replace distant places easily by air. One of the support of a drone that can be applied is that the drone can monitor from a distance. Many types of drones depend on the number of propellers used. The more number of propellers, the bigger the size and load that the drone can carry.

Therefore, at the end of this assignment, I will discuss a drone that will be able to beat $\pm 2\text{Kg}$ stably and can land automatically over the river. Automatic *Landing* is the mission of automatic drones to be able to land to a surface that has been determined uncontrollably by humans. This study uses ultrasonic sensors to determine the distance between drones and surfaces.

Keywords: Drone, Automatic Landing, Ultrasonic Sensor