ABSTRACT

Utilization of aeromodelling nowadays more diverse. One use of aeromodelling is a disaster monitoring. Disaster monitoring aims to facilitate the evacuation of casualties. In the search for survivors needed a method that can identify the man. Therefore HaarCascade image processing is implemented as a human object detection methods. processing detection was made using a mini computer Raspberry pi applied in quadcopter, and stream the video to groundstation process using mjpg streamer. The results of this research are obtained highest accuracy for human cases by 75%, namely when humans coincide with the position of the front facing camera and the most optimal in detecting the distance that is at a distance of 3-4 meters with a percentage of 80% - 90%. As for the performance of the transmission speed of up to 7.5-8.5 gained the most optimal fps with a resolution of 320x240.

Keywords: Human Detection, Computer Vision, Haar