

ABSTRACT

Nowadays, military weapon technology is an important thing to improve, one of which is to maintain security in a conflict area, however, the high risk experienced by soldiers in conflict areas causes security to be less than optimal. In order for security in an area to be monitored and controlled, a sentry gun is needed. In this project, the sentry gun equipped with a camera module to monitor the area around the sentry gun. The sentry gun is controlled by the operator using a controller device consisting of a joystick and push button for its movement connected via the NRF24L01 module. Sentry gun can be controlled in two modes, manual and autonomous. In manual mode, the sentry gun controlled by the operator using the controller device, and in autonomous mode the sentry gun can detect a target with a certain color and follow its movement and fire automatically.

Keywords: Sentry Gun, Object Tracker