ABSTRACT

Border surveillance is the most important task for national defense and security. But it is very difficult for the soldiers to watch the borders at each and every moment. This can be achieved by automatic monitoring system. The present work is focused on the border security system using robot. It may help the soldiers to secure the border.

 The proposed system consists of a robot that monitors the selected area continuously. If there is any suspicious thing detected by the camera, then a voice alert and the message will be sent to the respective admin. Border security robot also consists of a metal detector and fire sensor. Metal detector is used to detect the explosive items and the fire sensor is used to detect the flames near the surroundings. This is the method which can accurately detect the border intrusion with minimum human involvements.

Key Words: Arduino, Esp-32 CAM, sensor, GSM module

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