

IDENTIFICATION OF MISSING AIRPLANES USING WHITE SPY ROBOT

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Abstract

Blackbox is a recorder which records the data of the flight, it contains data like altitude, direction of plane, temperature, pressure. If accident occurs the data is recorded only by blackbox but if the plane is missed into ocean it is too difficult to find the blackbox. Blackbox only transmit the ping sounds (ultrasonic sound) from the underwater, the sound can travel through the sea water but due to some parameters of water the sound does not reach the surface of the water efficiently, so in this project a white spy robot is assisted for recording and transmitting the location via GPS and wireless camera to the ATC unit of the Airforce department.

Keywords: PIC Controller, GPS Transceiver, Temperature Sensor, Wireless Camera, DC Motor.

INTRODUCTION

Due to delay and inaccuracy in the rescue mission, a white spy robot is assisted to overcome these difficulties. A white spy robot is nothing but it is a spy which tracks the path of the disappeared flight by accessing the GPS and wireless camera. In addition to this temperature sensor is also included to know whether any explosion takes place or not. When both the engines get shutdown the robot will automatically fly from the surface of the flight and flies constantly after reaching some distance from the flight. At the time of activation, the controller starts to enable the devices in the robot. With the help of the motor, the device will fly high. The GPS will track the location and send data through satellite, the wireless camera capture the video, we can easily locating the flight by using its IP address.

EXISTING SYSTEM

Using blackboxes, the avionics crew will find the misery behind the airplane disappearance from radar. Black box collects the cockpit records and measurements such as the altitude, temperature, direction, pressure, engines details, fuel details. It can work upto 25 hours from the flight take off. It contains a beacon which produces the ultrasound^[2] when it is in underwater; the duration of the pinger sound is about 30 to 90 days. So many approaches have been araised like floating black box, airplane buddy system, underwater^[1] acoustic system. But everything consumes time to detect the disappeared flight. In figure 1 shows that model of the black box. The main drawback of the system is black box are floating on the water, due to huge force of waves it move far away from the exact location of the plane. Due to some parameters of ocean, Beacons does not have that much capacity to transmit the sound immediately outside the water, hence it leads to large time consumption.



Figure 1: Blackbox