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A Review Paper on Advance Long Range Spy Robot

Sanket Gawande¹, Vaibhav Bodhekar², Nishant Raut³, Krunal Maradwar⁴, Chetan Vairagade⁵, Atul Ambore⁶, Roshni Turankar⁷

^{1, 2, 3, 4, 5, 6, 7} B.E Student, Department of Electronics and Telecommunication, Rashtrasant Tukdoji Maharaj University, Nagpur, Maharashtra, India

Abstract: Now a day many illegal activities like crossing borders through forest regions, planting landmines, etc to keep an eye on such activities there is a need for some spying device that can spy on the restricted areas or some forest or territorial region where a human cannot go due to risk. In this paper, we have described such type of spy robot that is 'long range spy robot with night vision camera'. This system Long Range Spy Robot with Metal Detection is very innovative as this system allows operating a robot irrespective of the distance. To drive the system, the user has to formulate a call to the phone coupled to this robot and once the call is received, the user will have to make use of the keypad to transmit data commands to the robot. The data commands will make the robot either go in forward, then backward, left, or right direction. The system makes use of a night vision-enabled spy vision-enabled help of which the user can view the area captured by this spy camera which will be mounted on this robot. The user will be able to view the area captured by this spy camera not only during the daytime but also during the night. All the areas captured by this spy camera can be viewed in a mobile application or PC.

Keyword: DTMF Technology, Auto Surveillance Technology, Robot Night Vision, Video Transmission, Audio Transmission, Metal Detection

I. INTRODUCTION

In this era many illegal activities like crossing borders through forest regions, planting landmines, etc are taking place in order to keep an eye on such activities there is a need for some spying device that can spy on restricted areas, forest, territorial regions where a human cannot go due to high risk. We introduced a high-speed and advance long-range spy robot with a night vision camera.

The system basically works on the principle of DMFT. To operate the robot we have to couple a mobile phone which supports DMFT with the robot. The Robot Consist of 360 degrees view night vision spy camera, a metal detector. When we connect a call to the phone coupled with the robot it activates and with the help dial pad of the phone we can control the movement of the Robot.

The camera is linked with the mobile application where we can view the live moment activities, we can control the camera direction, record the video with audio, also speak through it with the help of this application. When the robot goes near the metal it will detect it with the metal detector mounted of the robot and will alert us with the buzzer. The robot totally works on the battery. As the robot works on the DMFT hence there is no problem with distance.

II. LITRETURE SURVEY

- A. This paper deal with the robot which is used for the surveillance of human activities in the war field or border regions in order to reduce infiltrations from the enemy side. The robot consists of a night vision wireless camera which transmits videos of the war field in order to prevent any damage and loss to human life. Soldiers have a high risk on their lives while ingoing an unknown territory.
- B. This paper deals with the requirement to make a variant of a spying robot that can empower us to watch the place of our advantage. Robots are assuming a critical job in military application. The vast majority of the work in the military is unsafe for a person. In a war field or safeguard task, a warrior needs to take his own specific manner to achieve the goal. The vast majority of the ways are perilous for a warrior. Consequently, the robot replaces the trooper. The extent of the robot additionally helps it to be utilized as a covert agent robot.
- C. This paper deals with the robot based on the android application for outlying action attached with wireless camera for intelligence purposes. The robot can wirelessly send out real-time video with night vision capabilities. This is a type of robot that can be supportive for intelligence work purposes in war fields.

- [5] This paper deals with the robot which facilitates human beings through giving security and working as a helping hand through reprieving. In this a high-quality wireless video camera equipped with a stepper motor for the Omni-directional view is used for the spying purpose which is mounted on the rob car to send real video images and audio signals. These audio and video streams received by the receiver unit can be used to take proper steps according to the received signals. This robot can also be used to go to places where humans cannot go like hidden places, small tunnels. The ultimate focus of this system is to offer far possible security for human beings.

Fig.1 DTMF Decoder

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V. BLOCK DIAGRAM

Fig 2 Block Diagram of long range spy robot with night vision camera

VI. CONCLUSION

In this paper our main objective was need of some spying device. Illegal activities like crossing borders through forest regions, planting landmines, etc to keep an eye on such activities there is a need for some spying device that can spy on the restricted areas, forest region or territorial region where a human cannot go due to risk and search any unwanted substance like metal, landmines, bombs, etc. without actually going on the site. All these problems will be overcome by the advance long range spy robot. We can send robotic vehicle at a long distance as it operates wirelessly and works on battery.

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