

Multipurpose Defense Surveillance Robot

Final Year BE Students of our college from Electronics and Communication Engineering Branch Mr. **M Praveen**, **Md Irfan KS**, **Ravinaik Lambani** have designed, developed and tested a low cost multipurpose “**Defense Surveillance Robot**” which can be used for bomb detection and remote area surveillance. **The project has been developed** under the guidance of Prof. **Vinayak P.Miskin** Assistance professor, Electronics and communication dept.



Key features of the robot are

- Night vision camera with arm for surveillance with clockwise and anti clockwise rotation
- It has live transmission to the base station.
- Bomb detection mechanism using magnetic sensor and 89s52
- Once the bomb is detected it alerts the base station.
- Alerting mechanism if the robot is attacked.
- Robot has Quad-copter along with it.
- Quad-copter with video recording for air-surveillance purpose.
- Quad-copter range is 50m.
- Can be used mainly for military application.
- Can be used for public surveillance with rotation of camera in clockwise and anticlock wise rotation

- Can detect the bombs through magnetic fields.
- Helps In Enemy detection
- Aerial observation with recorded video and still images

Approximate cost of building a Robot is around Rs25,000.