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IoT Based Spy Robot Using Night Vision Surveillance Camera

Roshan Omprakash Waghmare[1], Vaibhav Satish Kharde[2], Karan B Dahikar[3], Prajakta Virendra Ashtikar[4], Anjali Pramod Tayde[5], Ankita Sunil Sote[6], Prof. Snehal Chincholkar[7]
Students, Department of Electronics and Telecommunication Engineering[1-6]
Assistant Professor, Department of Electronics and Telecommunication Engineering[7]
Dr. Rajendra Gode Institute of Technology and Research Amravati, Maharashtra, India.

Abstract: *Security and surveillance have become critical requirements in modern society, particularly during night-time operations where visibility is limited. Conventional human-based surveillance systems are often inefficient and unreliable under such conditions. To address this issue, this paper presents an IoT-based Spy Robot integrated with a Night Vision Camera for effective remote surveillance. The proposed system consists of a miniature robotic platform equipped with a night vision camera that enables real-time monitoring in low-light and dark environments.*
The robot is capable of detecting and observing the activities of unknown persons and animals without the need for continuous human intervention or ground support. Using Internet of Things (IoT) technology, the system allows remote control and live video streaming over long distances. This approach enhances surveillance efficiency, improves security, and reduces human risk in sensitive and restricted areas. The proposed system provides a reliable, cost-effective, and flexible solution for modern surveillance applications..

Keywords*:* Internet of Things (IoT), Spy Robot, Night Vision Camera, Surveillance System, Remote Monitoring, Security Applications