Abstract

The use of night vision equipment’s is going to be more popular because of the number of terrorist attacks at border areas are increases day by day. In this paper, authors designed a new methodology named SPMiMOS (Special Purpose Military Mobile Service) whose main purpose is to provide remote interactions between soldier and MRA (Military Robot Assistant). This new designed methodology SPMiMOS uses IR (Infra-red) Security Camera whose function is to improve the clarity of data capturing at low light conditions or no light conditions during night time surveillance. The major objective of this research paper is to collect information from border areas especially when the situations are abnormal or in other words you may say during critical time through MRA’S (Military Robot Assistants). This proposed methodology save human life, time as well as energy. As the maximum use of MRA’S (Military Robot Assistant) automatically reducing the risk of terrorist attacks. And the other major benefit is technology also helps to contribute with Indian army and save our Indian Heritage (that is Indian People). This new designed methodology is working on the basis of two steps. At first step, MRA (Military Robot Assistant) capture images at low light conditions (no light conditions)
by utilizing Infrared Secure Camera Technology after its activation by his master (who is anybody say, soldier). In the second step, the complete record of captured information will forward/send into the main screen of soldier by the MRA (who is slave). In the absence of interface (i.e. SPMiMoS), the interaction between human (Soldier) and MRA (Slave) is not possible.

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Index Terms
Keywords

Military Robot Assistant (MRA), Night Vision Technology, Infrared Security Camera, Interface, Camera Technology, Remote Interactions