

Portable Laser System for Sniper Detection and Localization

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Sniper detection and localization is a complex task for military personnel in hostile combat environments as well as in peace-keeping missions. This paper gives an overview and comparison of available technologies for sniper detection systems. Sniper detection systems can be distinguished by before firing and after firing methods. The potential advantages of laser based systems over other technologies will be discussed.

Operational requirements for a laser based system will be discussed and technical requirements will be derived. These include angle accuracy, range, response time and detection probability. A possible technical solution will be presented for a portable laser system.

Key words: Sniper detection and localization, retro-reflection, eye-safety