Abstract

The hidden explosive material detection is a non-destructive investigation practice to identify explosive substances. It is widely deployed at airports, harbours, and sensitive areas of country specially the border areas. The basic detection arrangements are improving at their own pace but unauthorized movement of arms and illegal imports still happens. It is very common through vehicles by making false voids in their fuel tank or inside door panels. The hidden voids detection is a difficult task inside the compartments of vehicle. It is also unreliable, time consuming, and expensive. In conventional detection systems, canines and x-rays are the most common methods. Many advancements in the mentioned field have been proposed. This paper gives a comparative analysis of most significant explosive detection systems for identifying vehicle voids and compartments that may have explosives or illegal imports.

References


**Index Terms**

Computer Science  
Security

**Keywords**

Laser Vibrometer, Hide Explosive Detection, Tetra Hertz Detection system, Spectrum based IED.