

N174. New Remote Radiation Surveillance System

Odetics has developed a new remote radiation system. The Integrated Radiation Mapper Assistant (IRMA) consists of two major parts. The control station contains a 386-based industrial computer with a hard drive and touch screen.

The IRMA sensor platform is a teleoperated vehicle outfitted with sensors to obtain gamma radiation level information. From this, IRMA can create detailed radiation survey maps, eliminating human exposure from the process. IRMA uses a directional radiation detector of bismuth germanate (BGO) and plastic scintillator and BGO area radiation sensors.

Based on evaluations of nuclear power plant exposure records, IRMA could save over 10 person-rem per year per plant.

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