

NETWORKED RADIATION TRACKING SYSTEM

Model- DSI-2NT-ITS

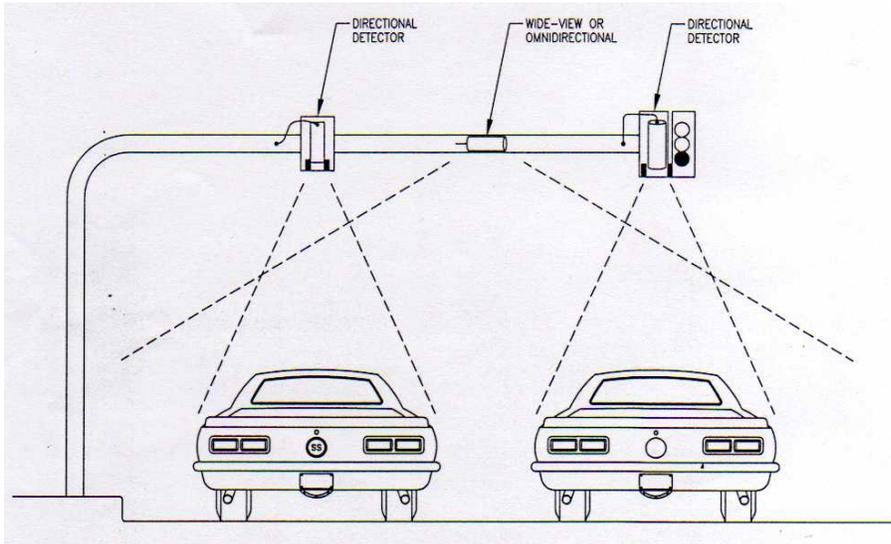
**Are Dirty Bombs or Nuclear Explosives moving through your Facility?
You need to know!**

FEATURES:

- DETECT VEHICLES CARRYING NUCLEAR MATERIALS
- TRACK MOVEMENT WITHIN YOUR FACILITY
- OR AROUND TOWN
- PLACE DETECTORS AT ANY TRAFFIC LIGHT, ETC
- SERIAL OR ETHERNET BASED ALARM AND DATA COLLECTION
- SEPARATION OF MEDICAL, HIGH GAMMA AND ATOM BOMB MATERIAL
- SENSITIVE - 1μ R/hr RESOLUTION
- SMALL SIZE
- RUGGED, SPLASH PROOF
- WIDE RANGE
- CONNECTS TO YOUR EXISTING WINDOWS or LINUX NETWORK
- CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES
- USER SETTABLE ALARM LEVELS
- TARGETED and OMNI-DIRECTIONAL DETECTORS



TRAFFIC SIGNAL MOUNT



Who benefits: If your facility is open to the public such as an **Airport** or **State Capitol** or **Financial Center**. If your facility receives, or handles freight or packages, then for everyone's safety your Police and Security Department need to know what hazardous radioactive materials are entering, transiting or detonating and dispersing within your perimeter.

TA **TECHNICAL ASSOCIATES**

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When and why are security personnel interested in radiation levels? Three time periods **Baseline time period:** Baseline mapping: Background varies from place to place, due to natural causes, and old pollution and uranium and potassium in road and building materials. **Prior to Detonation:** The terrorist moves radioactive materials into an area, for storage or pre-positioning a dirty bomb or nuclear bomb. **After Detonation:** An industrial accident, or a dirty bomb explosion releases large amounts of radioactive material in solid, liquid or airborne form.

Energy Range	Detector Low Gamma	High Gamma	Neutron
Energy Interpretation	Below 400kev Nuclear Medicine Patients	Above 400kev Dirty Bombs or waste	All Energies Nuclear Bombs
Sensor	Nal (or BGO) Scintillation Crystal	Nal (or BGO) Scintillation Crystal	BF3 Proportional Probe
Sensor Size	2" dia x 2" thick	2" dia x 2" thick	1" dia x 8" L
Range	1 μ R/Hr - 1mR/Hr	1 μ R/Hr - 1mR/Hr	0-1000 μ Rem/Hr - 1mR/Hr*

APPLICATION: Each detector node in the **DSI-2-ITS** Precision Radiation Proximity analyzer system is small with unprecedented sensitivity and accuracy. The **DSI-2-ITS** is designed specifically for use to give warning in case of illicit or accidental storage or transport of radioactive and fissile material. Suitable uses are for travel and shipment centers both in USA and overseas. Also power plants and in hospitals, landfills and at customs entry and exit points. Sensitivity is greatest when vehicle slows or stops next to the detector's location.



DSI-2-ITS

REASON FOR NEUTRON DETECTION: Some fissile materials have only WEAK gamma emissions which are hard to detect. These materials also have spontaneous neutron emissions. Detection of even a few neutrons is significant since the natural background neutron count rate is ZERO. When the neutron indicator comes on the operator knows that neutrons from fissile material are present.

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GENERAL DESCRIPTION: Small gamma and neutron monitor alarms on radiation level settable down to background level. The **DSI-2-ITS** can alarm at any of 99 preset levels. It also accurately measures exposure rate. The dose rate can be displayed on a local **LCD** display. When the alarm set-point is reached, the alarm relay is triggered. The **DSI-2-ITS** circuitry are completely digital, thus eliminating the inaccuracy inherent in any analog circuit. Calibration controls are recessed and covered.

This system can be installed at entrance and/or exit gates, at weight stations or check points, or anywhere that cars, trucks, railcars or pedestrians will pass by: preferably at reduced speeds for more accurate readings.

OUTPUTS:

- (1) Alarm relay for customer use
- (2) Serial (RS-232) data output
- (3) (optional) ETHERNET NODE - complete with its own IP Address. (Optional)

OTHER PRODUCTS AVAILABLE

Drinking Water Tester	Model MEDA-5T
Vehicle Monitor	Model VMF-TA
Portable Personnel Monitor	Model PPRVM-TA
Fall-out Monitor for airborne particulates	Model AIR-TBMO



MOBILE MOUNT

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