

# GRAPPLE SCANNER FOR RADIATION IN SCRAP METAL

Model # RAD-CANSCAN-GR



## FEATURES:

- **FAST SCAN, REAL TIME ALARM**
- **NO MOVING PARTS**
- **GAMMA and NEUTRON**
- **NON-INVASIVE**
- **DETECTS – ALL RADIOACTIVE MATERIALS, SOURCES & CONTAMINATION**
- **EXTREMELY WELL SHOCK MOUNTED**
- **MORE SENSITIVE THAN VEHICLE MONITORS**
- **EASILY SORTS CLEAN LOADS VERSUS CONTAMINATED LOADS**

**SITUATION:** Large volumes of scrap metal are moved from truck to ship to rail-car to foundry in USA and around the world. We need to know which scrap metal, if any, carries Radioactive Materials. Doing a manual search of large amounts of metal is not feasible for many reasons. The **RAD-CANSCAN-GR** gives highly sensitive information from a Quick scan.

**DESCRIPTION:** 2 Detectors arranged inside an armored shield up to 4 foot square, give **IMMEDIATE DATA** on radioactive content of the entire grapple contents.

## METHOD OF USE:

**Grapple Mounted:** The Detector is mounted inside the jaws of the grapple or on a crane or spreader bar.

The detector views the contents from the top. Mounting the detector directly on the grapple or gantry crane has big advantages:

### Advantages:

- \* ALL LOADS ARE SCANNED, (Not just a few random samples).
- \* No additional handling.
- \* Contaminated material is spotted early.
- \* Suspicious scrap metal can be separated easily.
- \* Reliable Detects CFR49-C Hazard Class 7 (Radioactive Material).
- \* High sensitivity because detector is so close to material!

## **T**ATECHNICAL ASSOCIATES

7051 ETON AVENUE \* CANOGA PARK, CA 91303  
TELEPHONE (818) 883-7043 \* FAX(818) 883-6103

---

# GRAPPLE SCANNER FOR RADIATION IN SCRAP METAL

Model # RAD-CANSCAN-GR-A, --B, --C, and --D



## SPECIFICATIONS:

Model	RADCANSCAN-GR-A	RADCANSCAN-GR-B	RADCANSCAN-GR-C	RADCANSCAN-GR-D
<b>Gamma Detector:</b>	1 each large plastic Scintillator	1 each large plastic Scintillator	2 each large plastic Scintillator	2 each large plastic Scintillator
<b>Overall Size</b>	12"x12"x7"	24"x24"x7"	36"x36"x7"	48"x48"x7"
<b>Neutron:</b>	YES: ZnS(Ag)	YES: ZnS(Ag)	YES: ZnS(Ag)	YES: ZnS(Ag)

- **Protective Armor:** Detector assembly has high-strength protective armor shield
- **Unique design allows good sensitivity even for lower energy gammas and neutrons**
- **Electronics on Grapple:** Each detector has pre-amp and HV plus counter
- **Other sensors:** Temperature, impact, motion --optional
- **Wireless Transmitter:** Several 100 foot range.

## Operator's Console:

- **Displays:** Alarm Status, Countrate, Self Test, Level of Confidence
- Windows CE
- **Memory:** 56 Meg on board, expansion option to 256Meg
- **Processor:** 400 MHz Intel Xscale processor
- **Communications:** Microsoft Windows Mobile Integrated wireless capabilities
- with Bluetooth technology and WiFi (WLAN 802.11b)
- **Display:** Touch sensitive TFT liquid crystal display
- with LED backlight, 64K colors 16-bit, 240 x 320 resolution

## TATECHNICAL ASSOCIATES

7051 ETON AVENUE \* CANOGA PARK, CA 91303  
TELEPHONE (818) 883-7043 \* FAX(818) 883-6103