

# QUICK SCAN X-RAY DETECTOR

Model ~ P 8 Neon Series  
P-8 Neon A ~ P-8 Neon ASC

## FEATURES:

- DETECTS – ALPHA, BETA, GAMMA, X-RAY
- QUICK SCAN OF LARGE AREAS FOR X-RAY LEAKS
- 2" X 16" SENSITIVE AREA
- 8 DETECTORS ON PADDLE
- EACH DETECTOR INDIVIDUALLY ALARMED FOR PINPOINTING LEAK
- USER SETTABLE ALARMS
- ALARMS – VISUAL & AUDIO
- SUITCASE MODEL AVAILABLE IN THE P-8 NEON-ASC



## APPLICATION

### RADIOACTIVE CONTAMINATION ON:

- X-RAY SCANNERS
  - PACKAGES
  - FLOORS OR WALLS
- State and Federal Regulations require that devices that use or produce X-rays must not emit (leak) X-rays in excess of 0.5 mR/hr from any 10 cm<sup>2</sup> area as measured at a distance of 5 cm.
- This should be verified by complete measurement at time of manufacture, again, upon installation, and periodically thereafter.
- Specific measurement of alarmed leak area with a small accurate X-ray mR-meter such as Technical Associates' **Model TBM-IC-X-RAY** with 10 cm<sup>2</sup> active detector area X-Ray compliance adapter is ideal for this task.
- Manually scanning the surface of a large cabinet x-ray machine or airport luggage scanner, etc. typically 10 square centimeters at a time is quite tedious.

Technical Associates' Quick Sweep Rad Detector **P-8 NEON-A** eliminates such labor intensive scans with large equipment.

## PROCEDURE:

1. Pick one side of X-ray cabinet to check first.
2. Use chalk to divide this side of cabinet into regions or strokes, each 16" wide.
3. Set X-Ray emitter to continuous emission or continuous use if possible.
4. Place **P-8 NEON-A** Probe against side of cabinet and sweep it along at about 1 "/second.
5. Watch the 8 lights on the **P-8 NEON-A** for constant red light.
6. Use the chalk to mark the location of the alarmed light.
7. Then continue your sweep.
8. When sweeps are completed, come back and repair shielding at the "hot spots" or measure precise mR/hr with TBM-IC-X-Ray.



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## SPECIFICATIONS:

**Detector:** Sensitive Area 2" x 16", Window 1.5 - 2.0 mg/cm. Measures Alpha, Beta, Gamma, X-Ray.

### ALARM:

**Locator Lights:** 8 Large Red LED's indicate which of the 8 detectors is firing, i.e. detecting an X-ray leak.

**Audio:** Click rate is proportional to radiation level to help locate hottest spots.

Audio emits clicking sound.

Red light and audio alarm show if total count-rate is above preset users level.

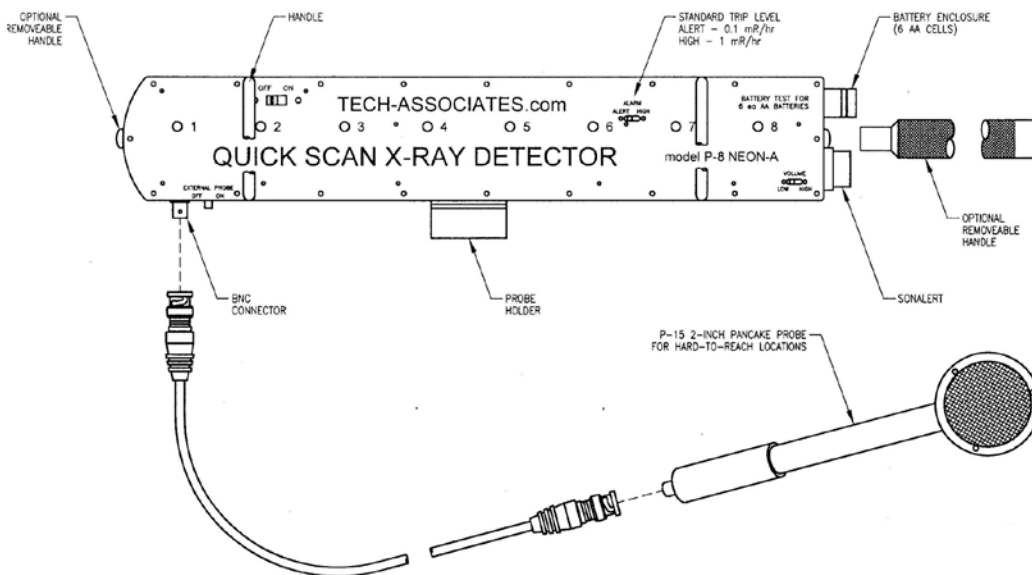
(User settable).

**High:** Trips at 1 mR/hr- or use recessed adjustment.

**Alert:** Trips at 0.1mR/Hr or Adjust.

**P-15 probe:** Separable 2" dia. Probe with cable and mounting clip. Use for hard to reach corners.

FEATURES	P-8 NEON-A
Alarm levels	Alert and high
Alarm Audio	High/low switch
Handles	Round handle plus metal loops
Carry Case: <b>P-8 NEON-ASC</b>	Hard sided case, Fitted Foam Handle and shoulder strap



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