PASS THROUGH PACKAGE, CART OR LAUNDRY MONITOR

Model ~ LIM-PC-6

FEATURES:

- BETA / GAMMA DETECTORS

- ALARMS AT 7 µR/hr RISE WITHIN 1 SECOND

- TWO PASS THROUGH TOWERS

- **EACH TOWER HAS (3)** PLASTIC SCINTILLATION PANELS:
    792 in^3 VOLUME EACH
    SENSITIVE AREA: 528 in^2 EACH

- **NO CONVEYOR OR MOVING PARTS**

- **OPTIONAL**: WIRELESS REMOTE NOTIFICATION – PHONE, EMAIL, TEXT, ETC.

- COMPUTER & SOFTWARE

- REAL TIME DATA DOWNLOAD & ARCHIVE

- VIDEO – REAL TIME DISPLAY & CAPTURE

- AUDIO & VISUAL ALARM INCLUDES STROBE & HORN

- DYNAMIC BACKGROUND SUBTRACT

- CONTINUOUS OPERATION: ``SET AND FORGET''

- BI-LATERAL ENTRY DIRECTION

- OPERATES ON AC

- **OPTIONAL:** BATTERY ``BACK-UP''

- **OPTIONAL:** NEUTRON DETECTOR

- **IP 67 DETECTOR;** IP 52 ELECTRONICS

LIM-PC-6
(3) PLASTIC SCINTILLATOR PANELS IN EACH TOWER

APPLICATION:

The **LIM-PC-6** is suited for use in Nuclear Power Plants, research labs using radioactive materials, or in designated laundry facilities accepting garments from industries utilizing radioactive materials.

DESCRIPTION:

Model LIM-PC-6 is a high sensitivity Beta/Gamma Monitoring system for determining possible radiation contamination in carts, packages, personnel, or laundry passing between the two detector towers.

Please see the LIM (Laundry Monitor) Comparison Chart

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DESCRIPTION:

Model LIM-PC-6 is a high sensitivity Beta-Gamma Monitoring system for determining possible radiation contamination in laundry, carts, packages, personnel, or hazmat (PPE) garments. The 'pass through' between two towers, each with 3 plastic scintillation panels, can be direct straight through or pausing between the towers for higher sensitivity. Optional Neutron detectors.

Plastic scintillation panels have higher sensitivity than cylindrical shaped scintillation crystals due to the larger surface area.

Background is continually updated and subtracted thus giving net contamination reading.

- **LIM-PC-6** includes the electronic control/alarm feature with (6) plastic scintillation panels, (3) in each tower, and a PM tube with 792 in^3 volume and & a sensitive area of 528 in^2 in each detector. Total sensitivity area of 2210^2 in each tower.
- Fast rate of change electronics with audio and visual alarms.
- Operates from 110/220 AC power main; optional battery back-up.
- Since the operation of this instrument is based on rate of change in radiation, it will reliably pick up contamination as it passes near the monitor.
- Video capture of 'pass through' triggered by alarm.

SPECIFICATIONS:

Detectors - Plastic Scintillators:	(6) 12" W x 1.5" D x 44" H (2) Towers with (3) detectors in each.
Sensitivity Range:	1 µR/hr to 1 mR/hr.
Power Requirements:	110/220 Volts AC, 50/60 Hz.
Power Connection:	Conduit or cable 6 ft. cable standard (Longer is available). Three Prong grounded connector.
High Level Alarm:	Flashing red light and intermittent 2900 Hz tone. (90 dB)
Alarm Set:	Internal factory set at .007 mR/hr rise per second. (May be reset by user.) Internal factory set at 50% above ambient background. (May be reset by user.)
Signal Cable:	12 ft Standard (User Specified Length)

DISPLAY

Alarm Indicators:	Ready - Green- High Alarm –Red – Battery Power in Use – Audio/Visual Alarm.	
Count Time:	Normal walking speed Up to a 10-minute pause (User discretion)	
Energy Range:	**Gamma:**	80 KeV to 6 MeV.
	Beta:	above 1 MeV, includes P^{32}, Sr^{90}, & N^{16}.
Communications:	Built-in Ethernet.	

WEIGHT & DIMENSIONS:

Dimensions:	Display & Control Box / Computer: 16'' x 20'' x 10'' typical plus alarm Beacon.
Detector Towers:	74'' H x 16'' W x 7'' D.
Weight:	2800 lbs total: 1400 lbs each tower
Shielding:	1" steel Shielding each tower

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OPTIONAL ACCESSORIES:

Check Source:	Uranium source; license exempt.
User Available Output:	5 amp SPDT Relay to operate other circuits.
Remote Alarm:	RAL-3W flasher, siren.
Power:	USB Back-up.

Alternate Detector Types & Sizes:

NaI(Tl) Scintillators or BGO crystal.

Additional Detectors:	Plutonium or Neutron or Beta.
Shielding:	Provision made for adding shielding plates.
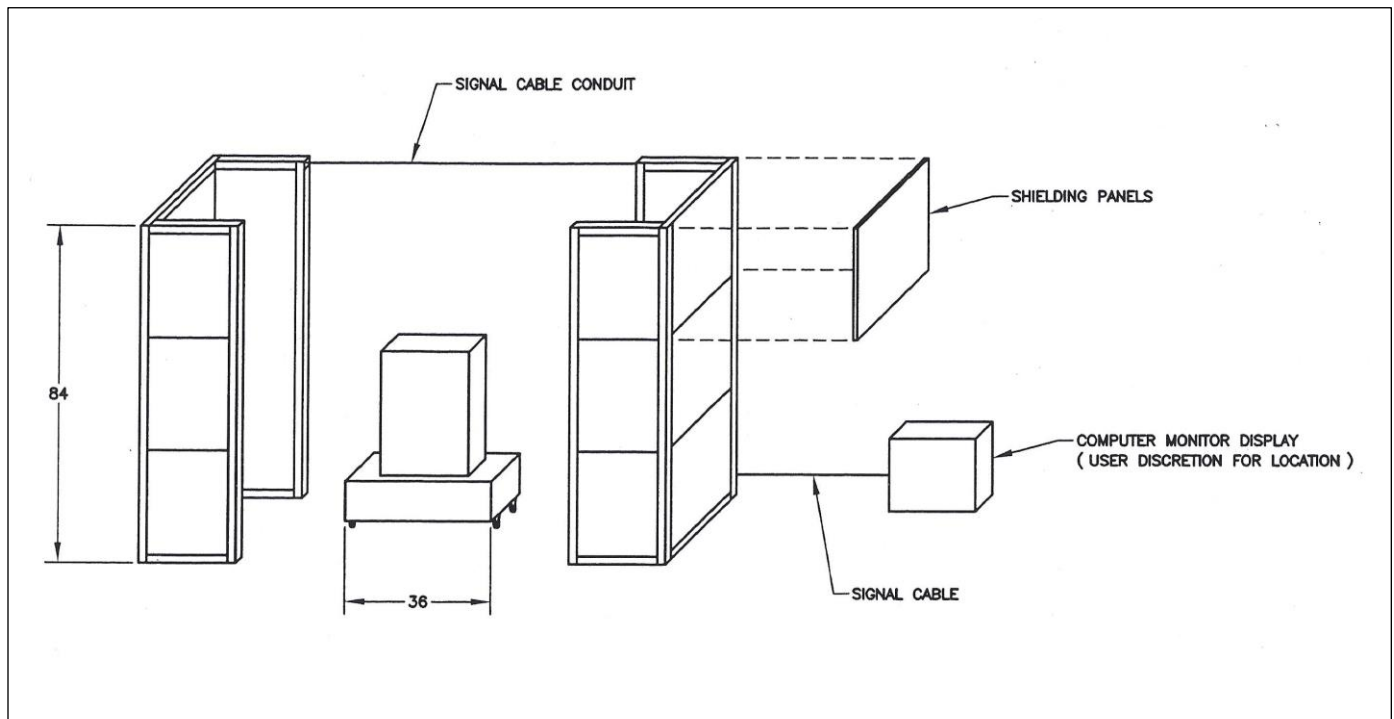
LIM-PC-6 SET UP

PASS THROUGH - LAUNDRY, CART, PACKAGE, MONITOR SYSTEM