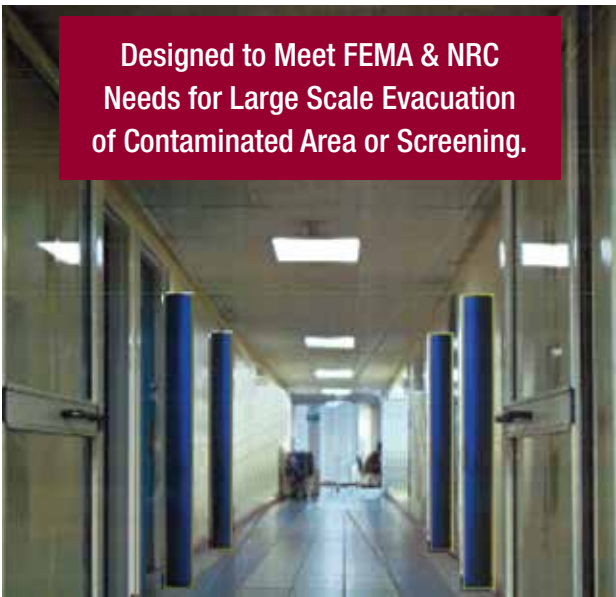


Designed to Meet FEMA & NRC
Needs for Large Scale Evacuation
of Contaminated Area or Screening.



Portable or Fixed Personnel and Vehicle Monitor

Model Series: PPVM

PPVM-TA, PPVM-TA-1, PPVM-TB, PPVM-HM

Features

- Completely Portable or Wall Installation
- Can Be Set to Any Width; Quick Set Up
- Video – Real-time Display and Capture
- Optional: Wireless Remote Notification – Phone, Email, Text, etc.
- Optional: Overhead / Underfoot Detectors
- High Sensitivity Due to Large Surface Area of Plastic Scintillation Sheets
- Detects Beta and Gamma Radiation
- Operates on Rechargeable Batteries or AC
- CAN Alarm at 7 uR/hr Change in 1 Second (PPVM-TA & PPVM-HM)
- Sees and CAN Alarm at 1 uR/hr Above Background (PPVM-TB)

Description

Mount to a fence post, stand alone, at a **roadside** or in a **parking lot**, or can be wall mounted in hallways or doorways. Background is continually updated and subtracted thus giving net reading for person or vehicle. Has audio and visual alarms and video recording. Standard set up is with (2) detectors, (1) on each side of portal. Scintillation Sheets are highly sensitive compared to cylindrical crystals due to the wider surface area.

Rate of change electronics with audio and visual alarms. Operates on built-in rechargeable batteries or 110/220 AC.

- **PPVM-TA & PPVM-TB** are designed for rugged outdoor use as well as indoors.
- **PPVM-HM** is designed primarily for indoor use.

Model **PPVM-TA** is a high sensitivity Beta/Gamma Monitoring system for determining possible radiation contamination on people, in containers, or vehicles on a non-pause basis. 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.

Model **PPVM-TB** achieves greater sensitivity for people or vehicles by stop & count approach. This system can be set-up at the road side or in a parking lot. It can be mounted to a fence post or stand alone in an indoor or outdoor area. Background is continually updated and subtracted thus giving net reading for person or vehicle.

Model Series **PPVM** are re-positional monitors. **Detectors are portable with stand or fixed on each side of hallway or doorway AT ANY WIDTH and may be remounted in alternate locations.**

- (2) Plastic Scintillation Sheets – One 528 In² in each Case (**PPVM-TA & PPVM-TB**)
- (2) Plastic Scintillation Sheets – One 576 In² in each Case (**PPVM-HM**)
- (1) Plastic Scintillation Sheet – One 528 in² (**PPVM-TA-1**)
- Dynamic Background Subtract
- Continuous Operation: “Set & Forget”
- Completely Weather Proof
- Data Download Via USB and Ethernet

Description

Portable control / alarm module plus two portable weatherproof detector housings.

PPVM-TA & PPVM-TB each contain two Plastic Scintillation sheets 528 in² /detectors.

PPVM-TA-1 contains one Plastic Scintillation Sheets 528 in² /detector.

PPVM-HM contains two Plastic Scintillation Sheets 576 in² /detectors.



TECHNICAL ASSOCIATES
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OTCQB-UCLC

Portable or Fixed Personnel and Vehicle Monitor

Model Series: PPVM, PPVM-TA, PPVM-TA-1, PPVM-TB, PPVM-HM

Specifications:

- Detectors (PPVM-TA & PPVM-TB): 2 ea. 12" x 1.5" x 44" premium Plastic Scintillation Sheets with a wide temperature range
- Detectors (PPVM-HM): 2 ea. 8" x 1.5" x 72" premium Plastic Scintillation Sheets with a wide temperature range
- Volume (PPVM-TA & PPVM-TB): 792 in³ per detector*
- Volume (PPVM-HM): 864 in³ per detector*
- Surface Area (PPVM-TA & PPVM-TB): 528 in² per detector*
- Surface Area (PPVM-HM): 576 in² per detector*
- Sensitivity: Detects 1 uCi of Cs-137 anywhere within portal based on 15-second count. Background up to 1 mR/hr. 28" portal width
- Range: 1 uR/hr to 1 mR/hr
- Rate of Change Design: Fast Alarming



DETECTOR

- Power Requirements: Choice of AC or DC Operation or Sealed Car Battery (Approx. 28 hours per charge)
- Cables: User specified lengths



COMPUTER

- Power Requirements: Operates on built in rechargeable batteries
Smart Trickle Charge when Plugged into Wall (AC) or 110/220 AC
- Power Recharge Cable: 6 ft. cable furnished. Three Prong grounded connector
- High Level Alarm: Flashing red light and intermittent 2900 Hz tone. (90 dB)
Volume adjustable / On/Off switch
- Alarm Set:
 - PPVM-TA: Internal factory set at .007 mR/hr rise per second. May be reset by user.
 - PPVM-TB: Internal factory set at 10% above ambient background. May be reset by user.
 - PPVM-HM: Internal factory set at .007 mR/hr rise per second. May be reset by user.
- Portable Cases: Weather-tight NEMA rated tough, durable, lightweight.
A "tongue-in-groove" continuous O-ring" system makes the case water, moisture, and dust tight, and a low profile pressure release valve.
- Wall Mount Cases: HMC Tubular Locking System. Constructed of heavy 1.5 mm steel. Fits between 16-inch center wall studs, or on the floor. Full-length piano hinge door for easy access, rugged construction prevents accidental damage.



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Portable or Fixed Personnel and Vehicle Monitor

Model Series: PPVM, PPVM-TA, PPVM-TA-1, PPVM-TB, PPVM-HM

Operating Temperature:	32° to 135° F (0° to 55° C) with Webcam 32° to 158° F (0° to 70° C) without Webcam
- Operating Humidity:	20% - 85% non-condensing with Webcam 5% - 90% non-condensing without Webcam
- Self-Test:	For: Low Battery, Loss of Signal, and High Back Ground
- Status Indicators:	"Ready" - "Counting" - "Clean-OK" - "High Alarm" "Count Incomplete"
- Count Time:	1 to 20 seconds (PPVM-TB & PPVM-HM only)
- Background Compensation:	Background is continually updated and subtracted (User can set parameters)
- Energy Range:	Gamma: 40 KeV to 6 MeV. Beta: above 1 MeV, includes P32, Sr90Y90, & N16
- Communications:	Built-in serial port and Ethernet Node
- Count Start:	Counting starts automatically when person or vehicle enters portal and trips sensor
- Set-Up:	One person can set-up unit in about 2 minutes



Designed to Meet FEMA and NRC Needs for Large Scale Evacuation of Contaminated Area or Screening.

Dimensions & Weight:

- Dimensions (PPVM-TA & PPVM-TB): Control Box: 16" x 20" x 10" plus Alarm Beacon
CASE WITH PPVM-TA & PPVM-TB DETECTORS:

Detector Towers: 54" H x 15.5" W x 7" D

- Dimensions (PPVM-HM): Control Box: 16" x 20" x 10" plus Alarm Beacon
CASE WITH PPVM-TA: Detector Towers: 78" H x 15.5" W x 7" D

- Optional:

- Shipping Weight - Portable: 150 lbs. (Lighter Less Sensitive Models Also Available)

- Shipping Weight - Wall Mount: 200 lbs. (Lighter Less Sensitive Models Also Available)

- Carrying Weight Portable: Control Box: 18 lbs. Each Tower: 55 lbs
(Wheels and Handles are Built-in - **PPVM-TA & PPVM-TB**)
PPVM-HM has no wheels or handles. Mountable and Repositionable.

OPTIONAL:

- Check Source: RAU-BGX, uranium source; license exempt

- Additional Relay: 5A SPDT to operate other circuits

- Additional Remote Alarm: RAL-3W flasher, siren

- Overhead Detector



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Model Series: PPVM, PPVM-TA, PPVM-TA-1, PPVM-TB, PPVM-HM

*Additional Options:

- 220 V, 50-60 Hz
- Battery Back-up
- Additional detectors: Overhead, Underfoot
- Alternate detector types: Other size plastic scintillators, NaI(Tl) Scintillators, or BGO crystal
- Specific detectors e.g. for Plutonium or Neutron or Beta emitters
- Additional Photo Cell sensors(s) to measure speed of person or vehicle passing through portal
- Wire-less operation
- Video license plate capture



Steel Cases with Stands
OPTIONAL –Inset Wall Mount



Cases for Portable
Detector System



Sample Display Readout

Portability:

- Battery or AC Operation
- Each element is housed in weather proof high impact plastic case with sturdy carrying handles
- Detectors are shipped with Deployment Stand (**Model DS-4**)
- Detectors have Built-in wheels plus industrial grade, easy to use, reusable straps
- Available as a Fixed Vehicle Unit (**Model - VMF-TA**), in a Metal Housing. See **Model ~ VMF-TA spec sheet**



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