

# Model 4525 Series Gateway Monitors



Ludlum Measurements, Inc.

## Introduction

The Ludlum 4525-Series of Radiation Portal Monitors (RPMs) represents state-of-the-art technology for detecting low levels of radiation in vehicles. The ruggedized detectors offer the best sensitivity at the most affordable price. All detector data are connected to a central computer running Ludlum's Echo software, which performs all alerting, data logging, and reporting functions. This system can be networked with up to 10 PC stations.

Key features this system offers include very low false positives, 100 millisecond samples, vehicle counter, real-time data logging, bi-directional entry, user-friendly operation, remote HV adjust, battery backup and superior service and support.

**Model 4525-2400**



**Model 4525-5000**



**Model 4525-7000**



**Model 4525-7500**



**Model 4525-10000**



**Model 4525-10500**



**Model 4525-12500**



**Model 4525-14000**



**Model 4525-15000**



**Model 4525-17500**



**Model 4525-21000**



Model Number	Number of Detectors	Detector Size	Combined Detector Volume
4525-2400	4	9.8 L (600 in <sup>3</sup> )	39 L (2400 in <sup>3</sup> )
4525-5000	2	41 L (2500 in <sup>3</sup> )	82 L (5000 in <sup>3</sup> )
4525-7000	2	57 L (3500 in <sup>3</sup> )	115 L (7000 in <sup>3</sup> )
4525-7500	3	41 L (2500 in <sup>3</sup> )	123 L (7500 in <sup>3</sup> )
4525-10000	4	41 L (2500 in <sup>3</sup> )	164 L (10,000 in <sup>3</sup> )
4525-10500	3	57 L (3500 in <sup>3</sup> )	172 L (10,500 in <sup>3</sup> )
4525-12500	5	41 L (2500 in <sup>3</sup> )	205 L (12,500 in <sup>3</sup> )
4525-14000	4	57 L (3500 in <sup>3</sup> )	229 L (14,000 in <sup>3</sup> )
4525-15000	6	41 L (2500 in <sup>3</sup> )	246 L (15,000 in <sup>3</sup> )
4525-17500	5	57 L (3500 in <sup>3</sup> )	287 L (17,500 in <sup>3</sup> )
4525-21000	6	57 L (3500 in <sup>3</sup> )	344 L (21,000 in <sup>3</sup> )

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Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: <http://www.ludlums.com> Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: [sales@ludlums.com](mailto:sales@ludlums.com)

Note: specifications subject to change without notification. We are not responsible for errors or omissions.

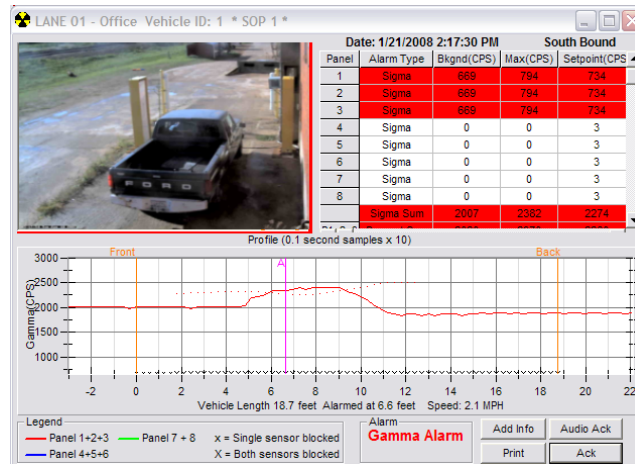
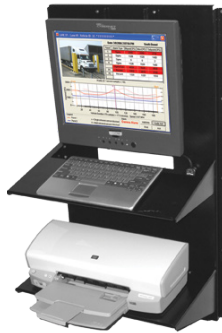
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## SYSTEM COMPUTER SPECIFICATIONS

- x86 Processor
- Windows 10 operating system
- 2 GB RAM
- Integrated SSD storage
- LCD, 43.2 cm (17 in.) monitor
- Supports up to 4 lanes
- Ethernet network capability
- Uninterruptible power supply
- Inkjet printer
- 8 relay outputs for options
- Radiation profile
- Mini USB keyboard with built in touchpad
- Data logging with automatic daily back-up
- Weight: 18.1 kg (40 lb)
- Dimensions: 97.3 x 55.9 x 47.5 cm (39.8 x 22 x 18.7 in.)  
(H x W x D)



## Specifications

### FEATURES

- Large Size, High Sensitivity Industrial Duty Detectors
- Reliable Operation with Very Low False Positives
- Flexible Configurations Accommodate Up to Four Lanes, Each Arranged with 2 to 6 detector systems
- Real-time Central Data Logging, Reporting, and Alarm Notification
- Bi-Directional Entry
- Optional Camera Captures & Logs Vehicle Images
- User-Friendly Operation
- Superior Service and Support
- Optional Point-to-Point Wireless Network
- Rail Car Mode
- 8-hour Battery Backup
- Multi-language Support
- Modular and Upgradable Systems

### DETECTORS

- EJ-200 plastic scintillator
- Dual photomultiplier tube (PMT) design, delivers over 30% more efficiency than single PMT designs
- Hi gain, low noise PMTs
- Shock mounted detectors to resist vibration-induced noise
- Thermally protected to avoid temperature shock, includes embedded temperature sensors to present operators the actual temperatures inside the detector enclosure
- 0.635 cm (0.25 in.) lead background reduction shielding on 5 sides
- NEMA 4X rated stainless steel enclosure, with white powder-coat paint, for environmental protection
- Low density aluminum front door, with white powder-coat paint, for enhanced low energy measurement

### ALARM TYPES

1. Radiation
2. Overspeed
3. Sensor failure
4. Instrument failure
5. Low battery

### AVAILABLE ACCESSORIES

- Remote Annunciator Panel (PN 4511-207) with Remote Light Indicators and Reset Button and 30.5 m (100 ft) Cable
- Additional Dual Presence/Speed Sensors
- Strobe/Horn Assembly
- External Video Camera in Weatherproof Enclosure (each system can support one camera per lane)
- Detector Stand Set
- Point-to-point wireless network

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