





LINCmrs

Brought to you by FLIR and Safe Environment Engineering the LINC Modular Radiological System (LINCmrs)is versatile wireless transportable radiological isotope detector easily configured for different types of monitoring requirements. Examples include mobile vehicle systems, portal applications, fixed facility and grouped for events requiring increased sensitivity detection.



Event Mesh Network Configured



6-Pack

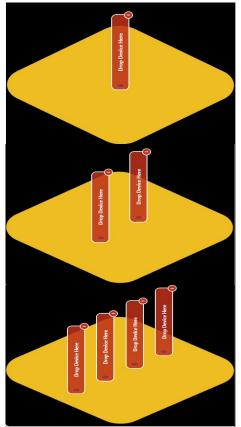


Transportable

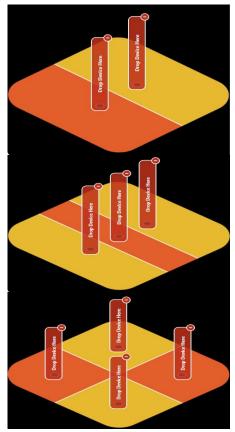


4-Pack

LINCmrs Configuration



LINCmrs detection units can be configured to meet the needs of the mission. The two broad categories configuration include tracking and combining. Tracking is used to determine the proximity of a source to a detection unit while combining increases the system's sensitivity.



Identification and Tracking



The raw global data window is comprised of the current spectrum, count and dose rates and a list of identified nuclides.

The identification window shows a summary of identified nuclides. In case of alarms, the display changes color and displays the category of the alarm





The tracking window shows the position of a detected source

Life-line MultiMeterViewer



Life•line MultiMeterViewer (MMV) provides an overview of multiple LINCmrs and other detection instruments in a real time display. The software functions as an instant command center, displaying data and providing both audible and visual alarms. A geographical information system (GIS) interface provides instrument information including tracking and survey information as map layers. Web Interfacing provides product info, references, alarm settings, guidance documents and more. The CT-Analyst® plume modeling module provides accurate, instantaneous, 3D predictions of chemical, biological, & radiological (CBR) agent transport both in urban and site specific environments.

Specifications

General

Power:

Size: 7.3" x 5.8" x33" (18.5 x 14.7 x 83.8 cm) Weight:18lbs Antenna: Omni Directional, 2.4GHz, 9dBi, N Male Antenna Connector: Type N

> AC 100-240V 50/60Hz 0.8A DC 14V 2.0A

Lights: Power, WLAN, GPS, Data Connector: MIL-DLT-26482 Miniature Cylindrical Power

Sensor

Gamma Detector: Nal(TI) 2 in x 3 in Energy Range: 20 keV to 3 MeV Energy Resolution: < 8% FWHM @ 662 keV Neutron Detector: He³ gas filled ionization Neutron detector with 10 mm Thick PE moderator (optional) He³ Detector: .075 in x 3 in, 8 atm pressure Neutron Sensitivity: Per IAE specification for border Monitoring equipment Neutron Energy: 0.025 eV to 15 MeV High Doserate: Sealed GM detector (opt) Operating Temperature: +5°F to +122°F (-15 °C to +50° V) Storage Temperature: -40° F to + 203° F (-40° C to 95° C) Operating Humidity: 10 - 80%, non-condensing Data Throughput: >100k cps Data Input Rate: 300k cps Corrections: Spectrum linearization Spectrum: 1024 channels 24 bits per channel Calibration Verification: Internal K⁴⁰(KCI) source Doserate Range: 0 to 100µSv/h (0 to 10 mrem/h) Doserate Resolution: 10 nSv/h (1 µrem/h) Doserate Energy: 50 keV to 1.5 MeV Stabilization: Peak analyzing K⁴⁰ or LED Power: DC internal chargeable battery Dimensions: 16.75 in x 2.6 in (425 x 65 mm), Nal(TI) only Weight: 4 lbs (1.8 kg) Material: Aluminum Protection Rating: IP 54

MESH RADIO / Access Point Radio Characteristics Radio: IEEE 802.11b/b, 2.4 GHz

Antenna Connector: Type N Frequency: 2.402-2.472 GHz / U.S. (varies with country) Modulation:

DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, CCK @ 5.5 and 11 Mbps OFDM @ 6, 12, 24, 36, 48 and 54 Mbps Max. RF Transmit Power: 25 dBm +/- 1 dB

Receiver Sensitivity:

1 Mbps: -97 dBm +/1 1dB 6 Mbps: -96 dBm +/1 1dB 24 Mbps: -96 dBm +/1 1dB 9 Mbps: -96 dBm +/1 1dB 36 Mbps: -93 dBm +/1 1dB 36 Mbps: -93 dBm +/1 1dB 12 Mbps: -91 dBm +/1 1dB 48 Mbps: -97 dBm +/1 1dB 18 Mbps: -90 dBm +/1 1dB 18 Mbps: -97 dBm +/1 1dB

Network:

VLAN and QoS Support; Access Point; Bridge; Gateway; DHCP; NAT and Port Forwarding; Automatic Protocol Tunneling (APT).

Security:

Supports IEEE 802.11i: AES-CCMP and TKIP encryption, WPA-Personal/Enterprise, WPA2-Personal/Enterprise, 802.1x; 64/128-bit WEP; AES-256 encryption and HMAC-SHA1 authentication between Gateways; Access Control Lists; Compatible with Layer-2 and Layer-3 client/server and peer-to-peer security solutions; Compatible with Harris SecNet 54® encryption.

Certification: FCC Part 15 (USA), ICES-003 and RSS-210 (Canada) Power:

Input Voltage: 10.5-25 VDC

Power: 3 W @ 24 VDC typical (4.5 W @ 24 VDC peak) **Temperature:** Operating -20°C to 70°C (-4°F to 158°F) **Humidity:** 5-95% (condensing)

Contact

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