D-tect SYSTEMS

A DIVISION OF LUDLUM MEASUREMENTS, INC.

Sentry-RMS
Gen 2

Networked, hardened, and encrypted security monitor to protect sensitive event and video data.

Mission

The Sentry Remote Monitoring System Gen 2 is a high-security, network-enabled system that allows real-time sensor and video monitoring by multiple operators across secure encrypted data links. The PC monitoring software is easy to use, and data and video logging is automatic. The Sentry-RMS is encrypted and protected from physical tampering and cyber attacks.

Versatility

The Sentry-RMS Gen 2 is a versatile radiation monitor. The provided monitoring software, multiple cameras, and a radiation detector assure that the area will be sucessfully secured. The Sentry-RMS is equipped with multiple tamper sensors to assure the security of the unit itself. The unit also has additional inputs and outputs for adding more capabilities such as duress, motion, and other sensors.

Video/Monitoring
- Constant state of health monitoring
- Monitor from anywhere with an internet connection
- Remotely monitor a secure location with multiple sensors
- Cameras can be named by user
- View high quality video from the standard 2 cameras with an option to expand to 4 cameras
- Stream video, alerts, and alarms to up to 6 different remote monitoring stations
- Video playback, fast forward and still snapshots
- Alarm/Alert video playback with added marker for time of event & video clip length indication
- With limited bandwidth, units can be set to stream images periodically instead of video

Software
- Intuitive, easy to use monitoring software for security personnel
- Secure web access available for senior personnel
- Embedded maps and blueprints show position of each unit
- Sends email & text alerts within 5 seconds with activated alarm
- Automatic logging of events and their associated video to export for audit scenarios
- Requires alarm acknowledgements and signatures from authorized software operators to clear event notifications

Detectors
- Standard sensors include radiation, light, tamper, and 2 cameras
- External radiation detectors, video cameras, access point seal detectors (doors, panels), and motion detectors are available

Interface
- USB, FTDI, WiFi, Ethernet, Serial, I2C, and GPIO sensor interfaces
- Five integrated relays and analog interfaces as well as digital sensors

Comprehensive Software

Each Sentry-RMS unit comes with all the software necessary for configuring both the unit itself and the monitoring software for each PC which will be monitoring the video streams, alarms and alerts from the Sentry-RMS unit. This software will allow encrypted access to up to 50 Sentry-RMS units per computer monitoring station.

Radiation Detector

The primary use case for the Sentry-RMS is monitoring the responsible steward-ship of radioactive materials. This is done with cameras, a radiation detector, and optional additional sensors. The detector is designed to monitor high energy radiation. Additional detectors can be attached as a custom input and be integrated in the remote monitoring software provided.

Video Monitoring

Up to four cameras can be connected to each sentry unit. These cameras can each stream encrypted video at a resolution up to 1280 x 960 over a secure network to up to six different monitoring stations simultaneously. When an alarm or alert is triggered, the system will record all video before and after the time of the event for a configurable period.

SPECIFICATIONS

Standard Sensors	Radiation, Tamper
Communication	Ethernet
Backup Battery Life	4 hrs
Radiation Detector	Solid State Detector
Detection Speed	2 seconds (adjustable)
Energy Range	50 keV - 3 MeV
Dose Rate Range	100 mrem/hr - 1000 rem/hr (0.1 mSv - 10 Sv/hr)
Dose Rate Linear Error (^{137}Cs)	Less than 20%
Weight	35 lbs with battery 25 lbs without battery
Dimensions	40.6 cm x 30.4 cm x 24.6 cm 16" x 12" x 9.7" (camera width=23.16")
Environment	NEMA 4 rated
Operating Temperature Range	20 to 120 °F (-7 to 49 °C)
Regulatory	FCC, ETL, and CE Compliant
Cameras	1280 x 960 (supports full HD) (2 Standard, up to 4 Optional)
Data Encryption	TPM 2.0 backed AES 256 Full Disk Encryption

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