

sentry RMS

Remote Security Monitoring System



*real time
multi-sensor
networked*

*security
monitoring*



OVERVIEW

The Sentry Remote Monitoring System is a high-security networked monitoring station that allows real-time sensor and video monitoring by multiple operators across secure and encrypted data links. The PC monitoring software is easy to use and data and video logging is automatic. The Sentry-RMS is heavily encrypted and protected from physical tampering and network hacking.

The Sentry-RMS is the most powerful radiation monitoring system on the market. The provided monitoring software, multiple cameras, and a radiation detector ensure that the area will be successfully secured. The Sentry-RMS is equipped with multiple tamper sensors to ensure the security of the unit itself. The unit also has additional inputs and outputs for adding more capabilities such as temperature, motion and other sensors as well as additional alarm systems such as lights and sirens.



FEATURES

- Constant state of health monitoring
- Monitor from anywhere with an internet connection
- Secure web access available for senior personnel
- Embedded maps and blueprints show position of each unit
- Sends email alerts within 5 seconds when any alarm is activated
- Monitor up to 50 units from one Windows based PC
- Intuitive, easy-to-use monitoring software for security personnel
- Can require alarm acknowledgements and signatures from operators
- Audible Alarm overrides system mute
- Remotely monitor a secure location with multiple sensors
- Standard sensors include radiation, light, tamper, and two cameras
- Additional radiation (scintillator, silicon), video, seals at access points (doors, panels), motion detection sensors available
- USB, FTDI, WiFi, Ethernet, Serial, I2C, and GPIO sensor interfaces
- Five integrated relays and analog interfaces as well as digital sensors
- Stream video, alerts, and alarms to up to 6 different remote monitoring stations
- View high quality video from up to 4 cameras per unit (2 standard)
- Video playback, fast forward and still snapshots
- Automatic logging of digital and video data

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SPECIFICATIONS

Standard Sensors	Radiation, Vibration, Motion, Tamper, Pressure, and Seals
Communication	Ethernet, USB, Serial UART, I2C, GPIO, WiFi, and FTDI
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 (¹³⁷Cs)	Less than 20%
Dimensions	12" x 15.5" x 7" (30.5 cm x 39.4 cm x 17.8 cm)
Weight (without battery)	16 lbs (7.3 kg)
Environment	NEMA 4 rated
Temperature Range	20 to 120 °F (-7 to 49 °C)
Regulatory	FCC and CE Compliant
Cameras	1280 x 960 (2 Standard, up to 4 Optional)
Data Encryption	256-bit

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.



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 storage 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.

