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## Introducing Mirador™: Cutting-Edge Real-Time Monitoring Solutions for Temperature Control





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### Introduction

In today's technology-driven landscape, robust real-time monitoring solutions have become essential across industries. Time is of the essence when it comes to protecting your products from temperature variations. Real-time monitoring systems let you know immediately if there's a problem with your products.

Among the leading systems, **Cryopak's Mirador™** distinguishes itself by specifically catering to the temperature and humidity monitoring needs of thermal equipment, storage facilities, and trailers. Boasting an integration of powerful web software and advanced wireless technology, Mirador™ has become a staple in numerous pharmacies, distribution centers, and hospitals across North America.

### 1. Real-Time Cloud Monitoring: A Game Changer

Maintaining precise temperature control is a non-negotiable requirement across numerous industries. Traditional temperature monitoring systems have been plagued with limitations, including physical constraints, data lags, and cumbersome manual data retrieval. However, the advent of real-time cloud monitoring software is effectively addressing these challenges, paving the way for more efficient, reliable, and comprehensive temperature control.

Real-time cloud monitoring software leverages the cloud's expansive capabilities to offer unparalleled features such as immediate temperature data updates, automated alarm systems, remote accessibility, and infinite data storage. By processing and storing data in the cloud, these systems enable seamless data access from anywhere,

using any internet-connected device, making temperature monitoring more streamlined than ever.



Cryopak's Mirador™ software interface of site map

## 2. Industry Applications

Real-time cloud monitoring systems have diverse applications across various industries:



**Pharmaceuticals:** In the pharmaceutical industry, certain medications and vaccines require specific storage conditions, including precise temperature and humidity levels, to maintain their effectiveness. Real-time monitoring plays a crucial role in preventing spoilage and ensuring that products remain safe for use when administered to patients.



**Food and Beverage Industry:** Proper temperature and humidity control are vital in the food storage, processing, and transportation sectors. Real-time monitoring systems can help maintain safe temperatures for food products,

reducing the risk of foodborne illnesses and minimizing waste caused by spoilage.



**Cannabis Industry:** With the legalization of cannabis in many jurisdictions, the cannabis industry has experienced significant growth. Real-time cloud monitoring systems can be utilized in this industry to monitor and manage various aspects of cannabis cultivation and distribution. For instance, these systems can monitor environmental conditions, such as temperature, humidity, and light levels in cultivation facilities to ensure optimal growing conditions.



**Data Centers:** Data centers require specific environmental conditions to ensure optimal performance and longevity of the equipment. Real-time monitoring can provide immediate alerts if temperature or humidity levels pose a risk of damaging the hardware, enabling a rapid response to mitigate potential issues.

## 3. Key Features and Benefits of Cryopak's Mirador™

### Software Functions

The intuitive Mirador™ Web Portal serves as the central hub for accessing data. This interface offers a visual representation of your installation, including sensor locations and real-time readings. Furthermore, the portal displays a list of recent system-

triggered alarms, along with their status messages, such as acknowledgment information and comments.

Mirador™'s interface enables easy navigation to other screens based on user privileges, accommodating various floor plans associated with specific users. It generates daily reports that encompass triggered alarms, calibration expiry dates, and recorded temperatures. All recorded data can be stored on your own servers and retrieved in multiple formats, such as text report, graph and interactive graph, pdf, or .csv export to Excel. The software also supports the automatic generation of reports that cover system configuration, upcoming calibration expiry dates, past alarms, and the minimum and maximum temperatures recorded within the last 24 hours. These reports can be displayed within the portal or sent externally via email on a regular basis.

## Alarm Capabilities and Compliance

Mirador™ incorporates robust alarm capabilities as a fundamental feature of the system. It is designed to notify users of sensor-level readings, such as temperature excursions, as well as system-level issues including power failures, network connectivity loss, or sensor damage. Notifications can be delivered through various channels, including text messages, emails, or pagers, allowing designated individuals to respond promptly. The system offers four levels of alarms, providing users

with sufficient time to take appropriate action. Users have the flexibility to customize the type of alarm they receive and choose their preferred delivery method.

Additionally, Mirador™ supports a cascade system for alarms with specific delays, enabling a sequential alerting process. Relays can also be integrated with your security department, enhancing the overall security measures and response capabilities of the system.



Cryopak's Mirador™ software provides device summaries through its intuitive interface

Moreover, Mirador™ ensures compliance with industry standards and regulations by offering features that facilitate data logging, audit trails, and report generation. These functionalities help organizations meet regulatory requirements and maintain a comprehensive record of alarm events and system performance.

## Scalability and User-Friendliness

Mirador™ is scalable, allowing users to add new hardware as per their requirements, schedule, or budget. This adaptability ensures that as your operations expand, Mirador™ remains a fitting solution. The installation process is user-friendly, and despite the system's technical sophistication, it can be installed by the users themselves.

## Language Availability

Mirador™ is available in English and French, with the capability to easily add other languages, making it an adaptable solution for diverse global users.

## 4. Complementary data logger, Cryopak Connect™ Wi-Fi

In the forefront of this transformative movement is the real-time cloud monitoring software, Mirador™, which is integrated with the advanced data logger, Cryopak Connect™ Wi-Fi. This combination is designed to be at the cutting edge of environmental data monitoring technology, providing users with highly accurate temperature and humidity data.

With its intuitive interface and Wi-Fi connectivity, Cryopak Connect™ Wi-Fi enables easy access, analysis, and sharing of data. This ensures a seamless user experience and enhances efficiency in data management.

The primary interface of Mirador™ presents a comprehensive



Enhancing Real-Time Monitoring with Cryopak Connect™ Wi-Fi Data Logger

representation of the installation, including sensor positions. It provides real-time readings obtained from the Cryopak Connect™ Wi-Fi device, ensuring that users have the most current environmental data readily available.

## 5. Future of Real-Time Cloud Monitoring

With continuous advancements in cloud technology and the Internet of Things (IoT), the future of real-time cloud monitoring for temperature control is promising. Integration of AI and Machine Learning could offer predictive analytics, providing insights into potential future temperature deviations and enabling preemptive measures.



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