Providing a Fail-safe Inspection

Storage and RAID Solution for Machine Vision Devices in the Pharmaceutical Industry

Innodisk's software and hardware-based RAID solution provided the customer with the performance and data integrity necessary to run sophisticated measurement and inspection instruments.

Introduction

Packaging and inspection of pharmaceuticals rely on automation. Due to this constant operational flow, this has led to streamlining the process and lowering costs. Yet, without the human component, rigid and secure systems need to be present to ensure correct dosage and labeling. Seeking a solution that incorporates both performance and data integrity, a Germany-based manufacturer of machine vision inspection systems turned to Innodisk for help. Combining hardware with proprietary software, Innodisk could offer an integrated solution that delivered on all points, while simultaneously paving the way for future business.

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Our Roadmap to Success

E2SS-32R2 2.5" SSD to dual M.2 RAID module
· Excellent data transfer speed
· Supports RAID 0/1
· Hardware RAID

2× M.2 S80 3MG2-P SSD
· 256GB Capacity
· SATA III
· High sequential/IOPS
  performance

iRAID Management Tool
· Configure and monitor
  RAID status
· Easily access device
  SMART information
· Sophisticated reporting
  technology

Challenges

· Maintaining Quality: Any system failure can lead to errors in marked samples or incorrect doses passing through inspection
· Avoiding Downtime: Replacing faulty devices can lead to costly downtime
· System Monitoring: The customer needed a way to monitor their device's status, allowing them to correct the system in a timely manner before errors could occur

Solutions

· Storage Redundancy: RAID 1 mirrors two SSDs. This means that even if one device fails the system can continue to run at a 100% capacity
· Easy Replacement: In case of device failure, the faulty SSD can quickly be swapped and RAID will automatically build once the new device is in place
· Monitoring Software: iRAID allows the customer to easily keep tabs on the status of each device

Result

The customer was experiencing issues with maintaining a high level of quality assurance and excessive downtime. With no effective way of monitoring their storage device status, it was hard to predict and prevent system failure. The Innodisk RAID solution offered an easily monitored system with in-built contingency measures that addressed all the issues faced by the client. With this case, Innodisk has shown itself as a reliable provider for the pharmaceutical and healthcare industry; moreover, the groundwork for a solid partnership has been established.

Our Promise

We at Innodisk believe that through cooperation we can overcome any challenge. By maintaining a strong line of communication all the way from inquiry to implementation, we ensure a tailor-made solution that fits your application. We remain committed to innovation with our continual focus on hardware, firmware and software integration.

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