

# ULINK DA Drive Analyzer's 2025 Update Boosts SATA Drive Performance

*ULINK Technology updates AI model in DA Drive Analyzer, an application and SaaS that predicts storage drive failures.*

SANTA CLARA, CA, UNITED STATES,  
August 7, 2025 /EINPresswire.com/ --

On May 29, 2025, ULINK Technology updated the AI model of its DA Drive Analyzer product. DA Drive Analyzer predicts storage drive failures in over 99% of commercial drives, including SATA, NVMe, and SCSI drives. The new AI model boasts improved performance scores for SATA drives over the previous AI model as well as improved performance over SMART Trips. The product was developed in partnership with QNAP Systems, Inc.



ULINK Technology company logo with name

## An AI-based Drive Failure Prediction Service

For those new to DA Drive Analyzer, it is software that monitors the health of your computer storage drives and warns you when your drives are in danger of failing. At its core is a machine learning model that detects subtle patterns in drive health data to predict upcoming drive failures. The software is currently offered for multiple platforms including QNAP NAS, ASUSTOR NAS, and Windows PC. It works by uploading non-sensitive drive health data to a secure cloud server where the data is analyzed for health issues. Drive health alerts can be issued either via email, to an application that runs on the platform, or to an online dashboard that you can log into from anywhere. The PC version of this software (which is called DA SmartQuest) also offers optional on-device only AI-based drive failure predictions for those with high network security needs.

## Improved 180-Day Precision

With the latest AI model, the 180-day precision goes up from 68% in the last model to 83% in the current model for SATA HDDs, and from 43% in the last model to 78% in the current model for SATA SSDs. What this means is that whenever the last model predicted 100 SATA HDDs and 100 SATA SSD would fail, 68 SATA HDDs and 43 SATA SSDs would actually fail over the next 180 days. Now, if the AI model predicts these same drives will fail, 83 SATA HDDs and 78 SATA SSDs will fail

over the next 180 days. Having precision go up with the latest model means that there will be fewer false alarms, and fewer wasted drive replacements.

In contrast, SMART Trips only offer a 180-day precision of 52% for SATA HDDs and a 47% precision for SATA SSDs. Having a lower precision means that a SMART trip is more likely to result in a false alarm and waste drive replacements than DA Drive Analyzer.

Overall, a higher precision translates into less wasted money buying replacement drives, and fewer wasted hours trying to rebuild RAID.

### Higher Recall Rates

The latest AI model also delivers a 2.3x higher recall rate for SATA HDDs over the last AI model. This means that for every failing drive that the last model caught, the latest model will catch 2 or more. A higher recall means that fewer dying drives go undetected.

The latest AI model also delivers a 13.7x higher recall rate for SATA HDDs over SMART trips. Having a lower recall rate means that SMART trips will miss a lot of the failing drives that DA Drive Analyzer can catch.

Overall, a higher recall rate translates into fewer undetected failed drives and less data lost due to unforeseen drive failures.

### Conclusions

“S.M.A.R.T. alone isn’t enough—many users are caught off guard by silent drive failures,” said Tim Lin, Product Manager at QNAP. “DA Drive Analyzer uses an AI model trained on behavioral data from millions of drives. It can detect potential anomalies even before any S.M.A.R.T. warning is triggered, enabling users to take preventive action and avoid data loss.”

“DA Drive Analyzer goes beyond traditional drive failure diagnostics, demonstrating ULINK’s leadership and innovation in AI and storage technology,” said Joseph Chen, CEO of ULINK Technology.

DA Drive Analyzer is constantly improving. As we collect more drive health data, we are better able to optimize the performance of our AI models for detecting drive failures. Find out how you can [try DA Drive Analyzer today](#).

See QNAP's press release.

### About ULINK Technology

Founded in 2001 as a privately held corporation, ULINK Technology, Inc. is the world leader in

providing IT storage interface test tools. Our pursuit of perfection and passion for engineering are the driving forces behind our innovation. With DA Drive Analyzer, which launched in 2021, we began providing comprehensive drive health monitoring and failure prediction services using AI-powered analytics and threshold-based algorithms.

DA Drive Analyzer  
ULINK Technology  
+1 408-446-8455  
da.support@ulinktech.com

---

This press release can be viewed online at: <https://www.einpresswire.com/article/837833731>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.