

IDE hard Drive Diagnostics Application

for D-105/D-105TL/D-101 Duplicators

Features:

- ▶ **Enhances the investment of your Datafast D-105, D-105TL or D-101 Duplicator System by expanding the system's capability to perform diagnostic testing on hard disks**
- ▶ **Provides a systematic method for computer and network technicians and MIS professionals to determine if hard drives are operational**
- ▶ **Provides standardized tests to compare read/write and seek performance for various hard drive types**
- ▶ **Enables the user to predict a malfunction of a drive before it goes bad by taking advantage of the error prediction algorithms that are built into modern IDE drives**
- ▶ **Scans drives to allow alternate sectors to be assigned to replace unreadable sectors**
- ▶ **Provides an easy way to sanitize your hard drives**
- ▶ **Diagnostic tests can run on up to five drives, simultaneously**

As Greystone Data Systems continues to provide its customers with the best products to meet customer needs, a new diagnostics application is available to further enhance the power of its DataFast line of IDE disk duplicators. The IDE Diagnostic Application is a powerful software program designed specifically to expand the capabilities of the DataFast D-105, D-110 and D-101 duplication systems to include hard drive diagnostics testing. By adding this diagnostic application, your DataFast will not only function as a hard drive duplicator, but also as a hard drive diagnostic center for IDE hard drives!

Since data integrity is directly related to the reliable operation of a hard drive, the ability to test the condition of drives before beginning any duplication process can be crucial for ensuring trouble-free operation. This diagnostics application provides the following diagnostic tests that can be performed simultaneously on up to five hard drives.

SCAN A scan utility is provided to confirm that every sector (or a range of sectors) on a drive is readable. This utility does not destroy any existing data on the drive.

WRITE/READ The Write/Read utility enables you to verify that sectors on a drive are writeable and that data written on each sector may accurately be read and that each sector is uniquely addressable.

SEEK Seek tests are provided to confirm the ability of a drive to function properly with various seek conditions. Several tests exercise the drive such that the large seeks are taken after the read or write of every sector. Other tests perform a small incremental seek after every read or write.

WIPEOUT A wipeout utility performs either "sanitizing" or "clearing" of a drive according to Department Of Defense standards for removable and non-removable hard drive to obliterate previously recorded data.

SMART The SMART utility enables the status of the internal failure prediction capability of a drive to be reported. SMART (Self-Monitoring, Analysis and Reporting Technology) is an industry-wide method by which IDE drives monitor internal parameters and warn of the increased potential of a drive failure. This utility enables you to determine whether or not a drive supports SMART. For those drives supporting SMART, you have the ability to activate or deactivate SMART. When SMART is activated you can determine if one or more "threshold conditions" in a drive have been exceeded, meaning that - even though the drive is presently operational - there is an increased likelihood of a drive failure.

REMAP BAD CLUSTERS Provides the ability to logically remove bad data from a file, making it possible to recover the remaining good data from a file that would otherwise be useless.



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