

Data Sheet

Features & Advantages

- Permanently stores digital information
- Backwards compatible – readable in current DVD drives
- Eliminates costly “data rotation”
- Archived at the point of origin
- Web searchable/random accessible
- Relaxed storage requirements
- Green technology – store it and forget it

Why not use standard archival DVDs?

Archival-quality DVDs are known to randomly fail leading to permanent data loss. The major failure mechanism is rooted within the data layer, the very core of recordable DVD technology. This layer consists of organic dyes that are chemically altered when data is written. Information is “burned” into the disc by creating light or bleached spots. The data is the contrast between light and dark spots. However, the dark spots fade over time, nullifying the burning process. This is why natural processes corrupt the data on the DVD in just a few short years. The National Archives warns that the shelf life of a regular DVD is only 2-5 years¹.

What makes the M-DISC different?

The M-DISC™ is constructed of inorganic, synthetic materials that preserve data forever. These materials cannot be overwritten, erased, or corrupted by natural processes. It is as if data were etched in “stone.”

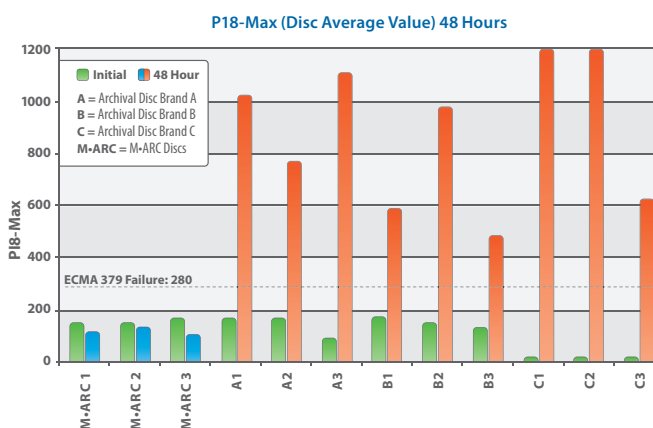
The unique materials used in the M-DISC require a new disc drive technology to engrave data permanently. The M-DISC and the M-Writer™ drive have been designed and optimized to work as one to etch data into the permanent synthetic stone layers within the M-DISC.

In addition to preserving data permanently, the M-DISC is designed to be backward compatible with standard DVD drives. Once data is store on the M-DISC it is readily accessible using a common DVD drive.



How do we know?

To validate our technology, Millenniata tested the M-DISC against the best conventional archival discs on the market. The test conditions were based on the 85°C/85% relative humidity industry test standard, supplemented with full-spectrum sunlight, a known disc killer. Millenniata has published these test conditions and other independent laboratories have replicated this test. Conventional optical discs subjected to the same level of testing fail within 2 days while the M-DISC is not affected. The M-DISC is the only survivor!



Made in USA

The M-DISC is proudly manufactured in the USA.



MILLENNIATA
Write Once, Read Forever™

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¹Frequently Asked Questions (FAQs) about Optical Storage Media: Storing Temporary Records on CDs and DVDs (FAQ #6). The National Archive.
Web: www.archives.gov/records-mgmt/initiatives/temp-opmedia-faq.html