

TANDY® TECHNOLOGY BREAKTHROUGH

TANDY THOR-CD™:

The First Record and Erase CD-Compatible Optical Disc

Imagine the possibilities...

RECORD • PLAY • ERASE
• PLAY • ERASE • RECORD
COMPATIBILITY • PLAY •

WRITE • READ • ERASE
• READ • ERASE • WRITE
ERASE • WRITE • READ •

RECORD
• PLAY •
ERASE •
RECORD
• PLAY •
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RECORD
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RECORD
• PLAY •
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RECORD
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RECORD
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RECORD
• PLAY •
COMPAT
RECORD
• PLAY •
ERASE •



TANDY™
THOR-CD

ERASE
• WRITE
READ •
ERASE
• WRITE
READ •
ERASE
COMPATIBILITY
READ •
ERASE
• WRITE
READ •
ERASE
• WRITE
READ •
ERASE
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• WRITE
READ •
ERASE
• WRITE
READ •

RECORD • PLAY • ERASE
• PLAY • ERASE • RECORD
ERASE • RECORD • PLAY •
RECORD • PLAY • ERASE

WRITE • READ • ERASE
• READ • COMPATIBILITY
ERASE • WRITE • READ •
WRITE • READ • ERASE

...now realize the potential.

TANDY THOR-CD: The New Technology for Audio, Data and Beyond...from Tandy

The challenge . . .

To develop an optical disc media that could be recorded over and over again—a “write many, read many” technology.

Tandy Corporation has answered that challenge with TANDY THOR-CD, a breakthrough in high quality, low-cost digital recording.

Only TANDY THOR-CD offers the optical disc technology that makes it possible to record, playback, store and erase again and again—creating a disc compatible with all existing CD audio and CD-ROM players!

A Digital First

That means that for the first time ever, digital information—whether music, data or video—can be recorded and erased with a laser on a CD-compatible disc. Just as important, production costs of TANDY THOR-CD discs are comparable to current compact discs.

With Tandy High-intensity Optical Recording, like the mythical Thor, the sound of thunder can be re-created over and over, using a bolt of pure laser light.

TANDY THOR-CD is a technology which offers applications in a broad spectrum of electronics—from audio/video products to data storage and beyond.

Indeed, a single TANDY THOR-CD disc is capable of storing hundreds of millions of bytes—the equivalent of tens of thousands of typewritten pages.

TANDY THOR-CD playback technology follows the same technique used in conventional optical discs—reading the microscopic pits in a light-reflecting disc. But with TANDY THOR-CD, the pits are erasable—allowing editing and re-recording. TANDY THOR-CD “reduces to practice” a basic dye polymer bump-forming concept introduced by Optical Data Inc.

Production of TANDY THOR-CD equipment will borrow heavily from existing CD technology, lowering R&D expense and allowing hardware manufacturers to bring product to market quickly.

Tandy Technology: basic research at work

TANDY THOR-CD is but the latest innovation from Tandy Corporation and is the result of years of research and development at the Tandy Magnetic Media Research Center in Santa Clara, California.

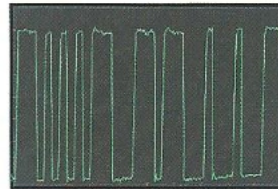
This center is currently conducting research in optical disc technology, magnetic media formulation and other audio/video projects.

With this breakthrough, Tandy continues its long tradition of Quality . . . Innovation . . . and Competitiveness.

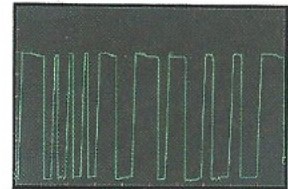
Organizations interested in participating in the development and production of TANDY THOR-CD Technology should contact:

TANDY THOR-CD Technologies
1300 One Tandy Center,
Fort Worth, Texas 76102
Telephone: 817-390-3693

At left is the input signal prior to recording on a TANDY THOR-CD disc. At right is the TANDY THOR-CD recording as played back on a standard Sony® 302 Mk II CD player. As can be seen, the recording is a near-perfect copy of the original signal.

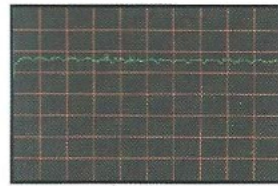


Digital input



Digital playback

After erasure (right), the TANDY THOR-CD disc retains the original, noise-free state of a virgin disc (left). All diagrams are actual signal traces, as depicted on a Gould® high-speed digital storage scope, with a sampling rate of 50 MHz.

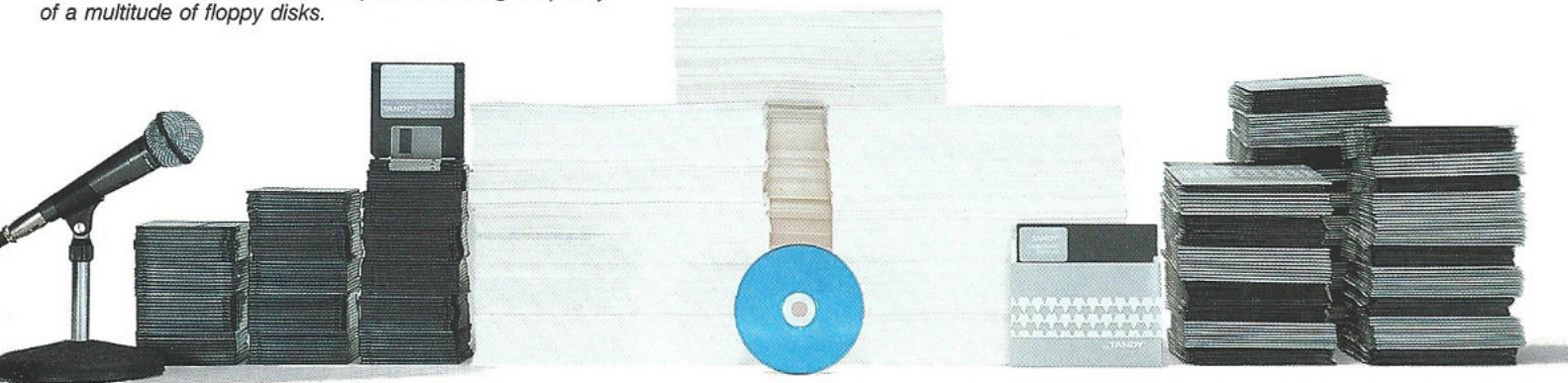


Media before recording



Media after erasure

TANDY THOR-CD has the potential of offering high-speed access to vast amounts of digital information. A single TANDY THOR-CD disc has the equivalent storage capacity of a multitude of floppy disks.



TANDY THOR-CD