

Seminar on the Joint Round Robin Test for Recordable DVD's



The Importance Of Recording/Playback Compatibility

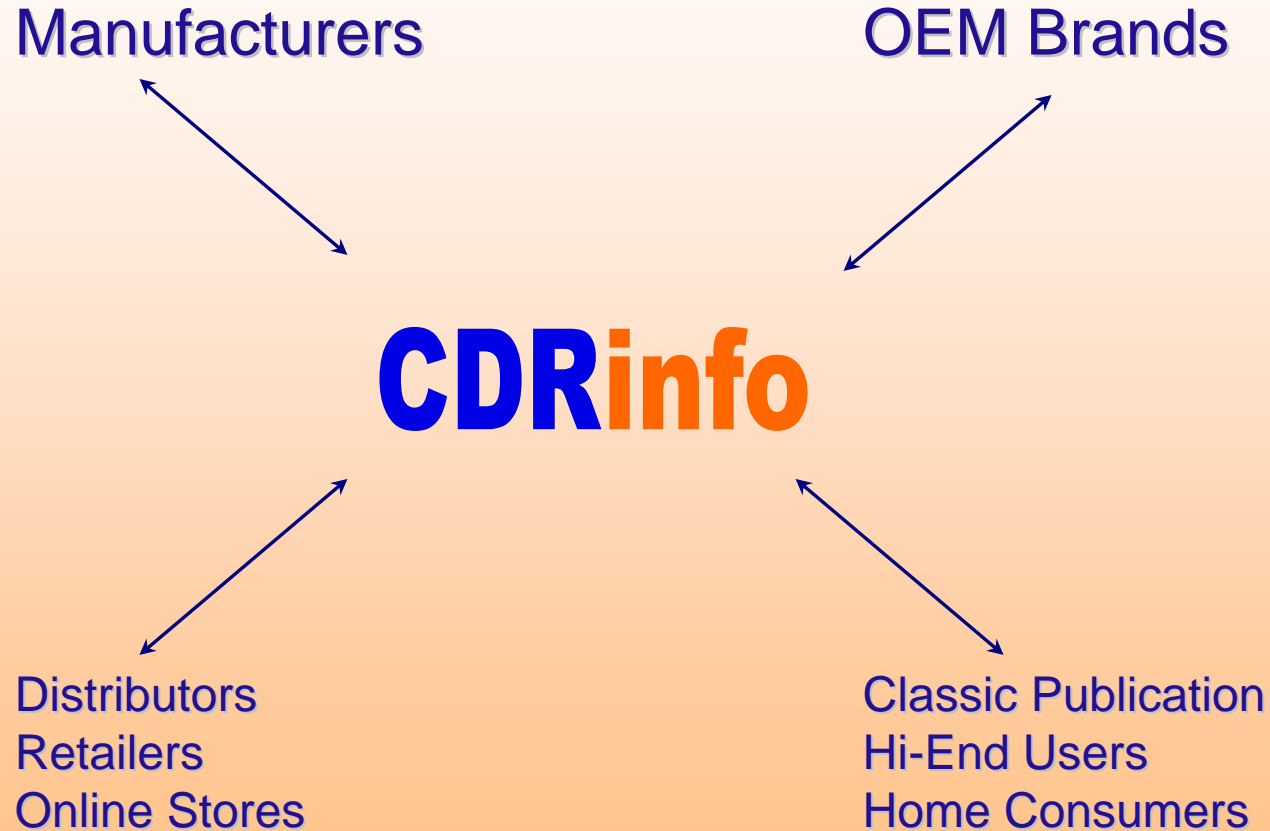
CeBIT 2005 – Hannover

CDRinfo – The Hardware Authority

Activities

- Technological Articles
- Industry News
- Evaluation Reports
- Hardware and Software testing

- Optical Storage
 - DVD/CD Writers
 - DVD/CD Media
 - DVD/CD Duplicators
 - Burning Software and DVD/CD Tools
- Consumer Electronics
 - DVD/CD Recorders
 - DVD Players
 - Home Theatre Systems
- ... and more



The definition of Compatibility

Playability

Recordability

What manufacturers/consumers will gain through improved compatibility

reduced costs

faster quality development

more compatible/reliable products

Keep users satisfied

“Industrial-wide Compatibility Test” Helps to Enhance Recording/Playback Compatibility of DVD Products

- **Benefits for manufacturers**

 - Compare own products objectively

 - Up-to-date technical information

 - Communication with other engineers

 - Cost saving due to reduced Compatibility Testing

- **Benefits for the market**

 - More “attractive” products

 - Cost saving for training staff on technical issues



Higher sales

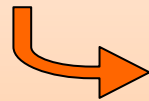
“Industrial-wide Compatibility Test” Helps to Enhance Recording/Playback Compatibility of DVD Products

•Benefits for customers

Reliable products

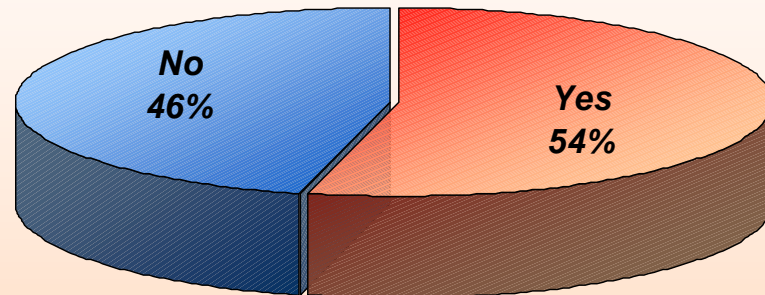
Increase Consumer Confidence & Satisfaction

Faster future development

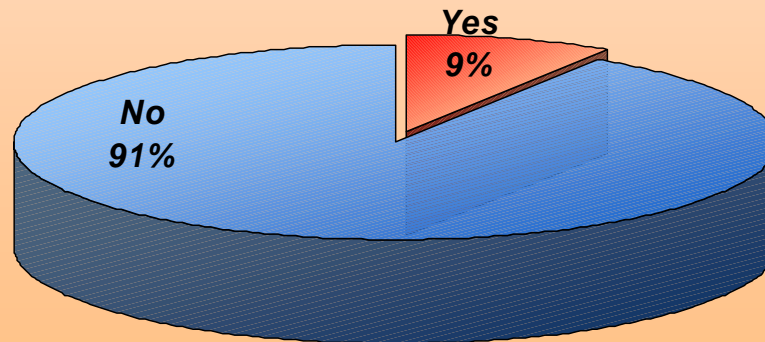


New technologies available to the customers

Do you know that there is more than one DVD media format?



Do you know the difference between the media formats?



CDRinfo's Compatibility Test Methodology

- Record discs using a standard project image file
 - Image file uses almost 100% of the disc capacity
 - Discs recorded at highest available speed
 - No booktype changes were applied
- Scan recorded media to investigate media quality
 - Using standard DVD checkers (hardware)
 - Using media quality tools (software)
- DVD Playback test
 - Using DVD-ROM readers
 - Using Stand-Alone DVD Players
 - Using PC DVD Writers
 - Using Stand-Alone DVD Recorders
- Compare recorded media with original source file

CDRinfo's Compatibility Test Results

In all tests, the following procedure is followed

- STEP 1: Normal playback**
disc fully played in all DVD Players used at normal speed
- STEP 2: FF (Fast Forward) playback**
fast forward throughout the whole disc area
- STEP 3: FR (Fast Rewind) playback**
fast rewind throughout the whole disc area

In all tests, the following results are reported

- PASS: 100% - Compatible**
disc passes all three steps with no problem
- FAIL: 0% - Incompatible**
disc could not pass some or all of the steps
disc not recognized or not played normally

Average Sum is calculated and presented

Compatibility is determined by:

Player devices

Stand-alone DVD Players
DVD-ROMs
DVD Burners

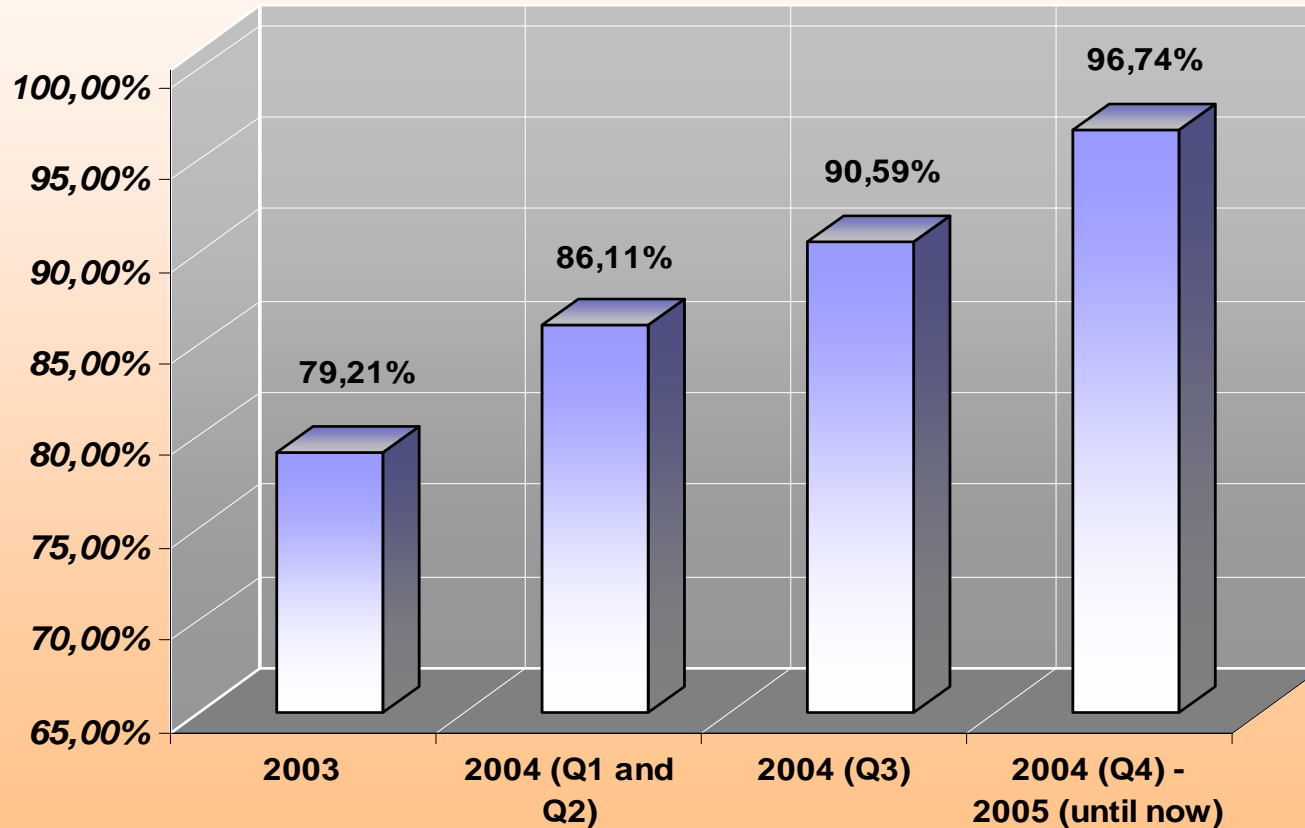
DVD Recorders

Stand-alone Recorders
PC DVD Writers

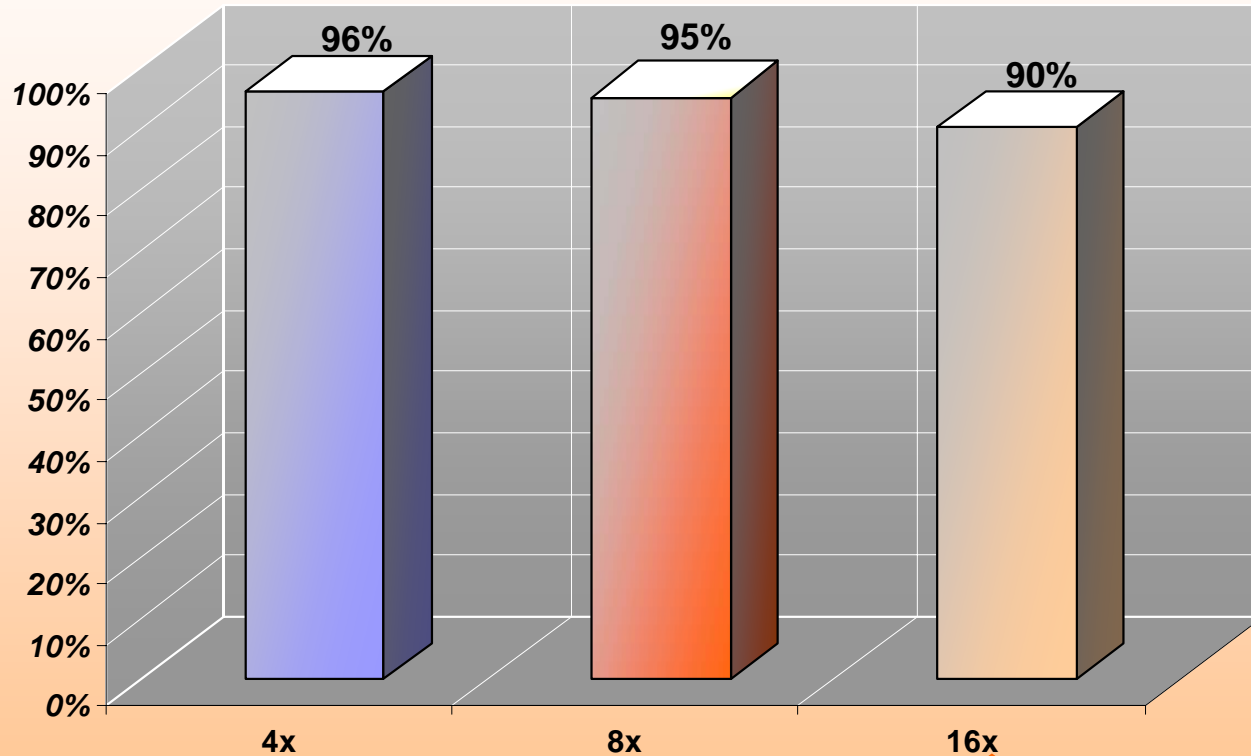
Media

Recordable
Re-Writable

DVD-R Compatibility Results throughout the years



DVD-R Compatibility Results (2004 – to the present)



16xDVD-R is just introduced into the market, so the compatibility will be increased hereafter

Thank you

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