Optical Storage

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Executive Vice President Philips Components CEO Business Group Optical Storage





Contents

- Profile Optical Storage
- Market outlook and Philips Optical Storage ambition
- Optical Storage strategy
 - product roadmap
 - customer orientation
 - business model
- Summary





Philips Track Record in Optical Storage

- Long history in R&D, resulting in strong patent portfolio
- Leader in standards setting from CD to DVD ReWritable
- Instrumental in opening up Data- and Consumer Recordable and ReWritable markets





Optical Storage

Profile	
Activities	CD and DVD components and modules
Focus	Recordable and ReWritable applications
Revenues 2000 (projected)	€1.4 b
Design /Development	600 persons





Optical Storage Application Market Segments



Consumer





Data



Let's make things better.



PHILIPS

Optical Storage Product Portfolio

Applications



Value Chain





Optical Storage - largest customer accounts 2001























Microsoft







Philips Optical Storage

Main Production and Development Centers



Let's make things better.



PHILIPS

Contents

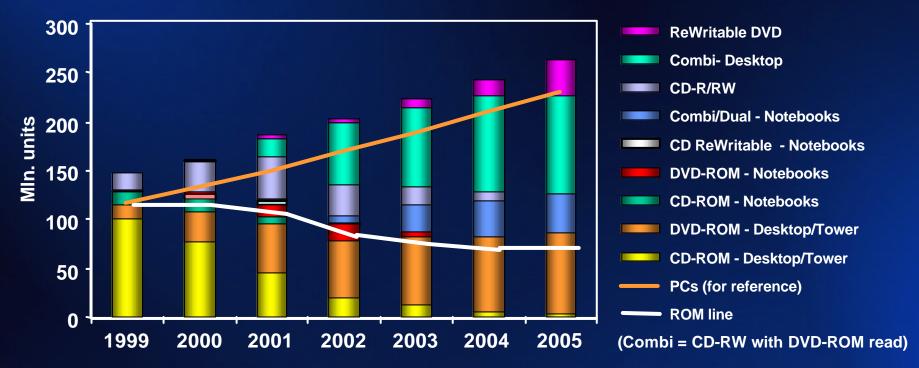
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Total PC related CD/DVD markets in units

CAGR for Combi desktop is 141 % for 2000-2005 CAGR for total rewritable market is 38% for 2000-2005



(Sources: BI estimates based on IDC, BL RW, BL ROM)



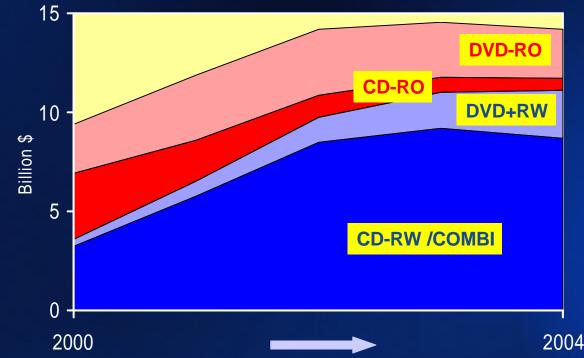


Optical Storage Data and Consumer Market

Trends

 Shift from Read Only (RO) to ReWritable (RW)

Shift from CD to DVD



Combi = CD-RW with DVD-ROM read



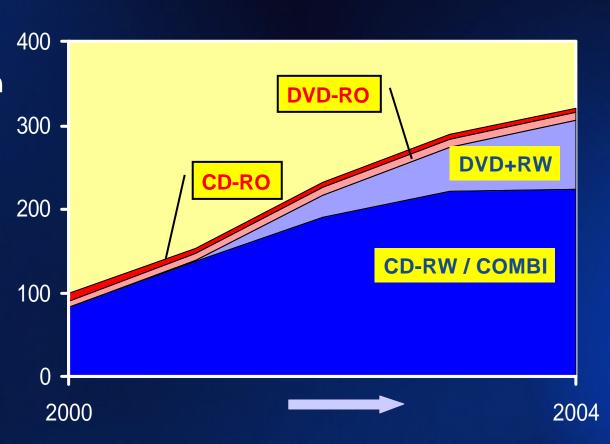


Philips Turnover in Data and Consumer Market

 Optical Storage will leverage leading position in CD-RW ...

 by focusing on new rewritable applications and standards...

 to outperform average market growth



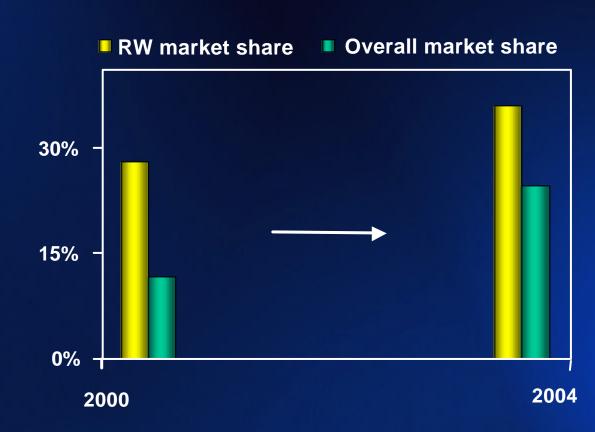






Market Share Development

• By gradual increase of market share in the ReWritable (RW) market, we aim to double overall market share from 12% to 25% in 2004







Optical Storage in Automotive

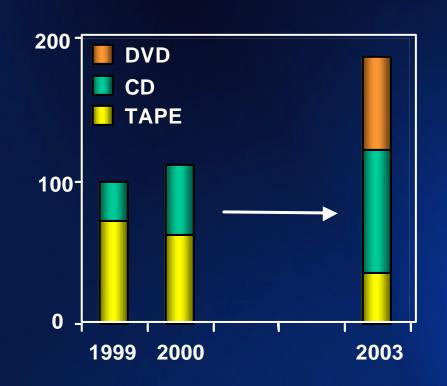
Strong Growth in Automotive Playback Modules

1999 - 2003:

 17% CAGR of turnover in Automotive Playback Modules

while

 53% CAGR of optical storage applications in Automotive Playback Modules







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Characteristics of the Optical Storage industry

- High innovation rate
- Rapid volume ramp up
- New Technology Standards settings by partnering





Optical Storage Strategic Direction

Key Building Blocks

- Focus on developing leading products for the Data segment (CD-RW) and Automotive segment (CD and DVD) to retain our market leadership
- Concerted approach <u>with selected partners</u> to establish R/RW standards for Audio/Video consumer applications.
- Increase volume flexibility <u>by outsourcing</u> through selective partnerships
- Ongoing development of core technologies Optical Pickup Units, Modules, Drives and provide System integration. Take full advantage of relationship with Philips Semiconductors.

Ambition is strong profitable growth





Six company group initiative for DVD+RW



SONY.



RICOH











Manufacturing and Supply Chain Expansion Strategy

- High growth issues:
 - Repetitive installation of new production lines
 - Ongoing optimization of outsourcing versus in-house production
 - Suppliers base
 - Web-based Logistics and IT Tools
- Strategy to expand in Asia/Pacific using experienced contract manufacturers to maximize capital turnover and volume flexibility.
- Example : Ionics in the Philippines.







Optical Storage product roadmap

- Continuous upgrading CD Recordable for Audio Market
- DVD Video upgrading for Video market
- "X- game " (performance and volume) CD R/W for Data Market
- Combi product (CD-RW/DVD-ROM) for Data Market
- DVD Recorder DVD+R/W for Data/ Video market
- Future Video recorder market: DVR (Blue laser technology)
- Product portfolio focus on high growth, high value added market segments





Optical Storage customer focus strategy

Top 10 PC-OEM manufacturers; Top 5 in After-market

PC OEM line-fit growing fast!

Top 10

- Compaq
- Dell
- IBM
- Hewlett-Packard
- Packard Bell/NEC
- Gateway
- Fujitsu-Siemens
- Toshiba
- Apple
- Acer

Ambition is 35% total Market share

After-market retail stable

Top 5

- HP
- Philips
- Acer
- lomega
- Creative

Ambition is 25% total market share

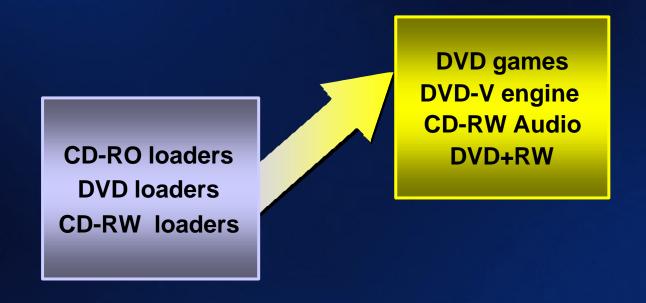




Customer portfolio

Consumer

- Growth / New market segments
 - Structural shift in value chain towards engine supply and higher value-added product portfolio







Key Customer Strategy

Consumer

- Focus on high growth, high value add products using recordable- and rewritable technology: CD-R, CD-RW.
- Build Leading position in digital video recording: DVD+RW.
- Maintain position of high volume supplier and cost leader in high volume Read-only market of CD, VCD and DVD. Further broadening of customer base.
- Expand into Active Entertainment market.





Customer Portfolio

Automotive

Our customers include

- Visteon
- Robert Bosch / Blaupunkt
- Delphi Automotive Systems
- VDO / Mannesmann
- Daimler Chrysler Huntsville Electronics

- Johnson Controls Inc.
- Siemens AT
- Magneti Marelli
- Becker Automotive Systems
- Grundig

Our customer base represents more than 80% of the total OEM automotive world market for telematics and infotainment





Key Customer Strategy

Automotive

- High level of Customer intimacy and long term relationship
 - outstanding product quality and delivery performance
 - technology leadership and design-in support
- Continue long term business relationships with the main automotive OEM customers, by alignment of product / technology roadmaps and co-development.





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In Summary...

- The Rewritable and Recordable market will see a CAGR of over 30% over the coming years - and capture by far the most value
- Philips Optical Storage is currently well positioned in both the Data-, Consumer-R/RW, and Automotive market
- Based on present leadership position and ambitious product roadmap, we aim to double our overall market share in the next coming years





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