New Growth areas in Automotive, Special Lighting & UHP

Bas van de Kieft CEO Business Group Automotive, Special Lighting & UHP

November 23, 2004

Scope of the Business Group

- Automotive applications
 - Product range of Signaling and Head-lighting Xenon, Halogen, LED modules
- Special Lighting applications
 - Optical: Film, entertainment and Optical industry
 - UV: Disinfection, Medical and Sun-tanning and UV body care
 - IR: Zone heating, Infrared Sauna, Animal rearing, Semiconductors, bottle blowing
 - EUV: Philips Extreme Ultra Violet for next generation Wafersteppers
- Consumer Electronics applications
 - LCD Backlighting
 - Digital projection



Common characteristics / Key drivers for success

- Co-operation with leading customers across the globe
- Leading in innovation
- Excellence in execution
 - Supply performance
 - Quality performance
- Integrated system approach where this adds value
- Exploring new technologies: LED modules, OLED, lasers



Automotive applications



Car production grows with 3% but the Car lighting market grows faster: 8%

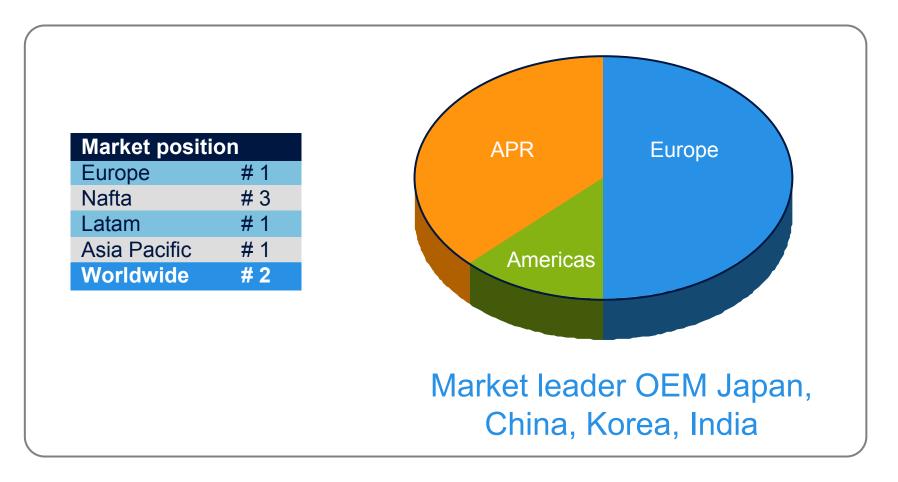
Driven by

- Safety
- Comfort
- Design

Leading to

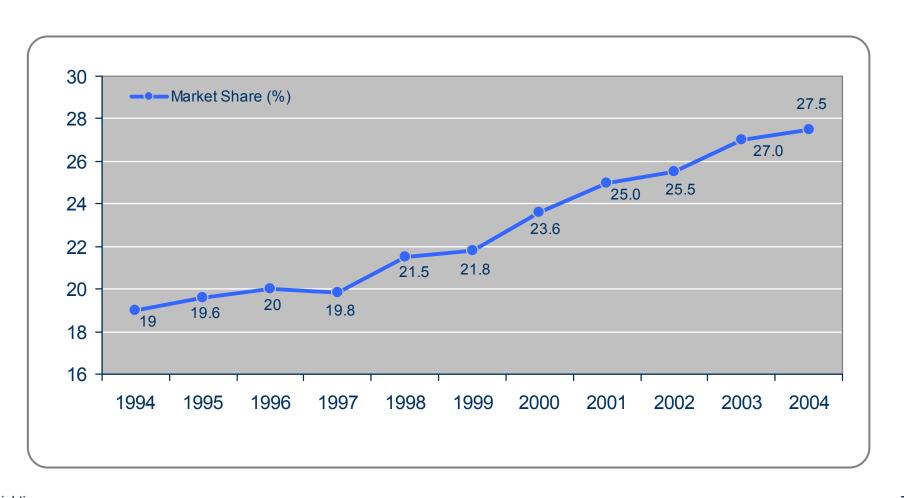
- New functions
- More lamps

Philips Automotive Lighting: Sales & Market share





Market Share Development BU Automotive 1994-2004



Examples Automotive customers







































Trends in head-lighting: Safety & Comfort

Xenon

- Invented by Philips
- World No 1 supplier
- 1st in Hg-free (Toyota)
- 2.5 more light output than halogen
- 50% less energy







Trends in interior lighting: Design & Comfort

Evolution

from task lighting only ...

... to **ambient lighting**, orientation lighting, ...







Trends in car lighting: Car life & Design

HiPerVision: A breakthrough in signaling

- Car life
- Low energy
- Small size
- New design opportunities







Trends in after market: Safety & Comfort

NightGuide



- Strong fit with new Philips Brand Positioning
- Extensive media coverage
- Further strengthens leadership in safety segment in After Market



- 1. Safety Zone
- 2. Information Zone
- 3. Comfort Zone

Front page "De Telegraaf"!





Trends in car lighting: Design & Car life

LED

- LEDs are increasingly used in rear light and signaling applications ...
 ... and will ultimately be applied in head lighting
- Increased co-operation Philips Automotive and LumiLeds including LED modules

Quality is key driver for success

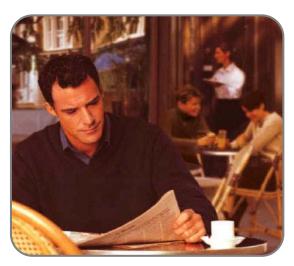
- The average '03 level of rejected bulbs @ carmaker is < 1 ppm
 - # of supplied bulbs \rightarrow 405.000.000 pcs
 - # of rejected bulbs → 383 pcs
- Close co-operation suppliers / set makers to reach zero defects



Lamps for special applications







Optical

Entertainment Lighting

Studio

Theatre

UltraViolet

Bodycare

Medical (eg psoriasis)

Disinfection (water/air)

InfraRed

Semicon

Bottleblowing

Sauna's

Terrace Heating

A fast growth area: Water & air disinfection applications with UV light

Water purification







Domestic water



Bottle /Ultra Pure water

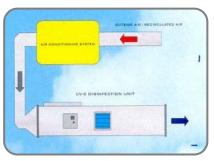


Waste water

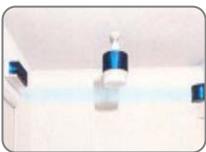
Air purification



Cooling coils



Forced air/HVAC



Upper air



Domestic stand alone air purifier

Philips Extreme Ultra Violet for Next generation Wafersteppers (2007)

Co-operation ASML



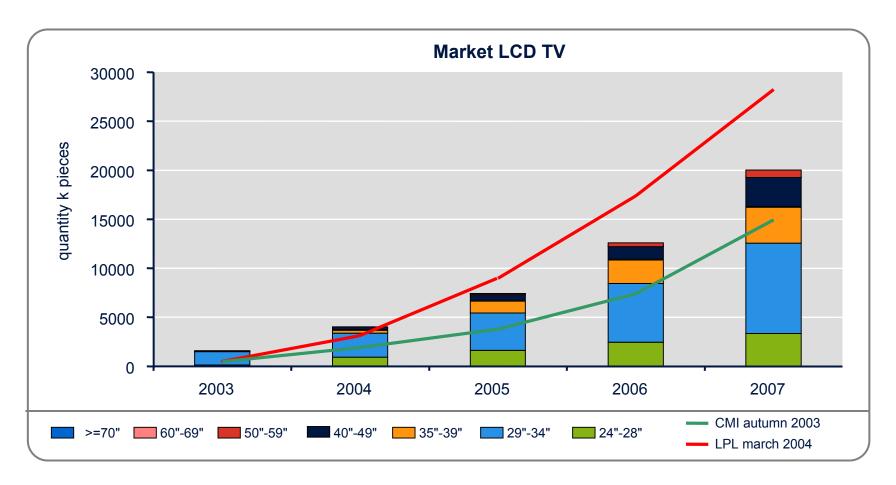






Consumer Display Applications

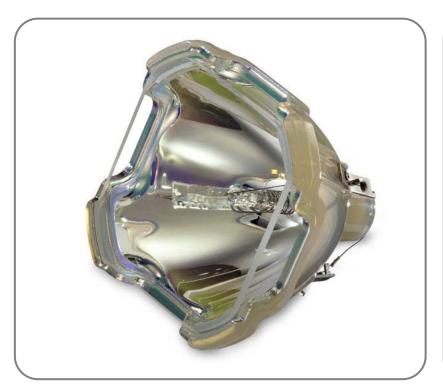
LCD backlighting systems: a fast growing opportunity



Philips preparing to enter LCD backlighting systems market

- Fast growing larger screens
- Competences regarding lightsource, luminaire, electronics, optics
- Breakthrough innovation expected early 2005
 - Sharper moving images
 - Higher brightness
 - Higher contrast
 - Wider viewing angle
- Close co-operation LG Philips LCD

1995: Philips invents UHP Projection Light System

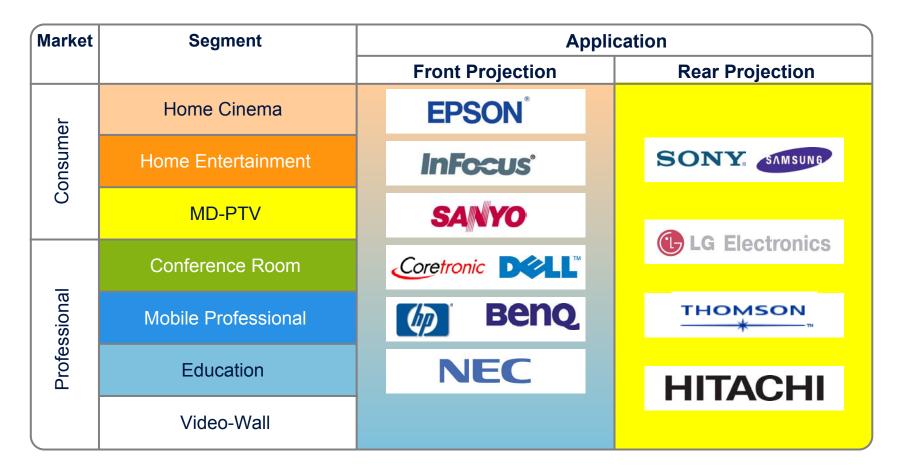




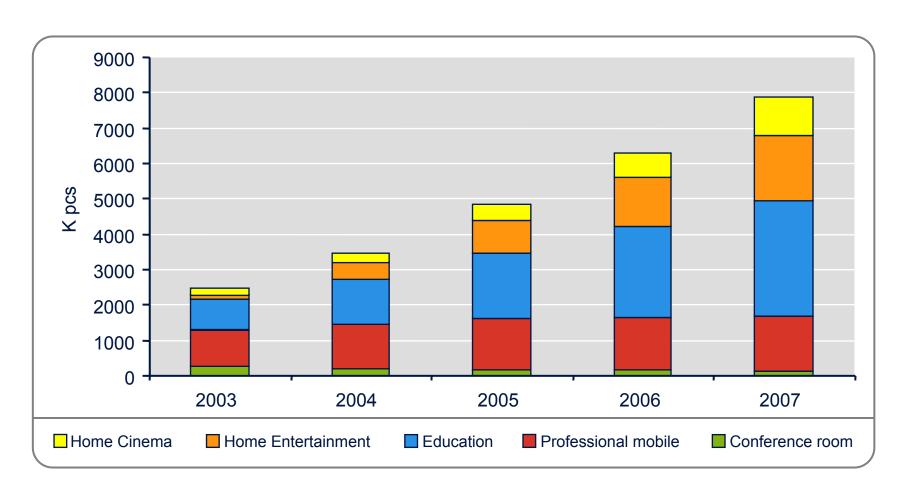
Philips Lighting created the data projection market and is now creating the digital rear projection TV market

Market	Segment	Application	
		Front Projection	Rear Projection
Consumer	Home Cinema		
	Home Entertainment		
	MD-PTV		
Professional	Conference Room		
	Mobile Professional		
	Education	Source and the second s	
	Video-Wall		No. of the last of

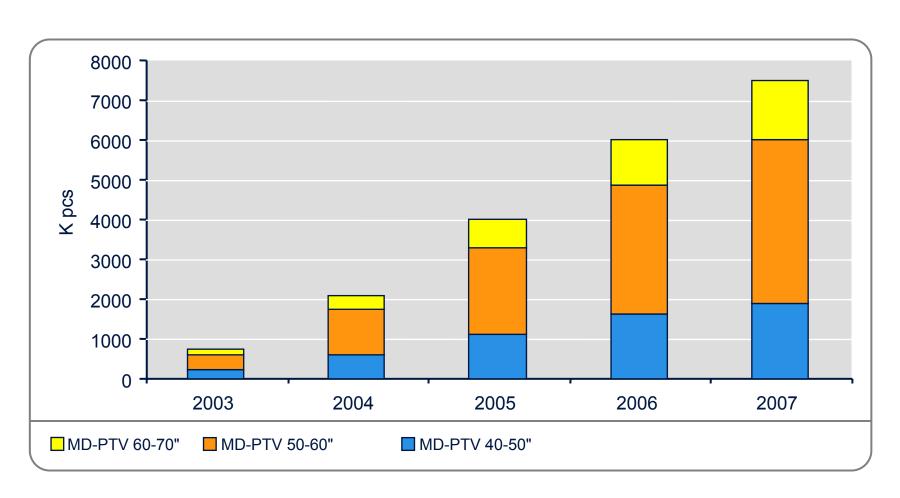
UHP Market key customers



Market Overview: Front-Projection Market Fcst



Market Overview: Rear-Projection Market Fcst



Lighting Source: UHP PMG estimation 26



Digital Rear Projection TV at Home

Philips Lighting Market share 2004: 70%



Key strategy UHP

- Profitable growth
- Strong investments in R&D (+30% in 2005 vs. 2004) to remain leading in IP, support new product design and development of new technologies (e.g. lasers)
- Strong investments in capacity expansion in Belgium (lamp burners) and China (assembly/electronics)



BG Automotive, Special Lighting & UHP

Sales 800 M Euro with

- average 11% comparable growth 2000 2004 through
 - leading customer across the globe
 - strong innovation
 - excellence in supply / quality
- above average profitability

