

# Technisches Englisch

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## Growth Potential for Automotive LEDs

According to a **recently** published report, 'LEDs in Automotive Applications', from IMS Research, the car is becoming an increasingly important **source** of applications for light-emitting diodes (LEDs) as an alternative to **incandescent light bulbs** and halogen and xenon lamps. Their importance **is set to rise substantially, doubling** from a EURO.45**billion** (\$0.65billion) business in 2006 to EURO.90billion (\$1.3billion) within 10 years.

Today most of the **value** comes from applications inside the car, such as **back-lighting dashboards** and displays, and **supplying** a wide range of **indicator lamps**. **However**, the LED value from external lamps will rise from one-third of the LED total to over one-half by 2013. Most external LED lamps are used **at the rear**, as **brake, tail and turning lights**. Analyst Jamie Fox states: "**Daytime running lights** (DRLs) will become much more widely used in the future. The DRL business will grow from under \$5million [EUR3.48million] last year to over \$100million [EUR69million] **by** 2013."

Not all cars use DRLs. In some countries, such as Canada, Finland and Sweden, they are **obligatory**. In other countries, such as the USA, they are not **required** but are used on many vehicles. In some coun-

tries, such as the UK, they are little used. However, in general DRL use is growing. **In particular**, EU studies have **concluded** that DRLs **save** lives, so a law requiring DRL use **throughout** the EU is widely **anticipated**.

DRLs will offer a good **opportunity** for LEDs, **according to** Fox: "LED DRLs have long lifetime and low power **consumption**, as well as an attractive **appearance**." LED DRLs, which were first introduced on the Audi A8 in 2004, are **currently** used on **less than** one per cent of vehicles. However, IMS Research **forecasts** that, with very strong **growth** after 2009, the market **revenues** for LED DRLs in the next decade will be **similar** to revenues for LEDs for functions used in rear lighting applications today.

*By courtesy of IMS Research, Engineer Live*

**according to** laut, zufolge  
**anticipate** erwarten, rechnen mit  
**appearance** Aussehen, Erscheinung  
**at the rear** hinten  
**backlight** den Hintergrund der Anzeigen beleuchten; Hintergrundbeleuchtung  
**billion** Milliarde  
**brake, tail and turning lights** Brems-, Rück- und Blinklichter  
**by** bis spätestens  
**conclude** schlussfolgern, ergeben  
**consumption** Verbrauch  
**current/ly** zur Zeit, gegenwärtig  
**dashboard** Armaturenbrett  
**daytime running lights** Tag(fahr)licht  
**double** (vb) sich verdoppeln  
**forecast** (vb) vorhersagen  
**growth** Wachstum  
**however** jedoch  
**in particular** besonders, insbesondere  
**incandescent** glühend, weißglühend  
**indicator lamp** Anzeigelampe  
**is set to rise** wird/soll ansteigen  
**less than** weniger als  
**light bulb** Glühlampe  
**obligatory** verbindlich, verpflichtend  
**opportunity** Gelegenheit

**recent/ly** kürzlich, jüngst  
**required** erforderlich  
**revenues** Umsatzerlöse  
**save** retten  
**similar** ähnlich  
**source** Quelle  
**substantial/ly** beträchtlich, erheblich  
**supply** versorgen; Versorgung  
**throughout** immer, durchgehend  
**value** Wert

## Odd One Out!

In this **issue** I would like to **improve** your word power. In the following activity please find the word which does not **belong** to the group. Why not?

- 1 a) mechanic b) technical c) engineer d) plant manager
- 2 a) printer b) scanner c) keyboard d) spanner
- 3 a) destroy b) expose c) expertise d) measure
- 4 a) wide b) long c) high d) depth
- 5 a) alloy b) zinc c) lead d) copper
- 6 a) flaw b) fault c) fuse d) failure
- 7 a) headquarters b) staff c) branch office d) subsidiary
- 8 a) gas b) motorway c) vacation d) elevator
- 9 a) face shield b) ear muff c) safety helmet d) chainsaw
- 10 a) maintain b) available c) significant d) reliable

**belong** (dazu) gehören, angehören  
**improve** verbessern, vervollkommen, verfeinern  
**issue** Ausgabe  
**odd one out** Außenseiter, nicht dazu gehörig, fünftes Rad am Wagen  
**solution** Lösung

*P. Zillmer*

1b: jobs; **technical** is an adjective (= tech-  
nisch)  
2d: computer equipment; **spanner** is a  
tool (= Mauseisenschlüssel)  
3c: verbs; **expertise** is a noun (= Gutach-  
ten, Fachkompetenz)  
4d: adjectives; **depth** is a noun (= Tiefe)  
5a: metals; **alloy** is a compound (= Legie-  
rung)  
6c: technical trouble; **fuse** is a technical  
component (= Sicherung)  
7b: parts of a company/group; **staff** is the  
total of employees (= Belegschaft)  
8b: American English expressions; **motor-  
way** is British English (= Autobahn)  
9d: protective clothing; **chainsaw** is an  
electrical tool (= Ketten säge)  
10a: adjectives; **maintain** is a verb (erhal-  
ten, beibehalten)

**Solution**



Examples of LED  
daytime running  
lights (LED DRLs)

