

## Flat Panel Displays

Flat Panel Displays (FPDs) are widely used for many applications. While they have been intensively used for mobile communication, automotive, avionic and industrial applications as well as for notebooks, they took their time to replace cathode ray tubes (CRTs) as desktop monitors. Meanwhile, they are first choice when buying a TV set. As the next wave, they start to conquer the public displays and digital signage market.

For the future, we can expect rollable displays and low price and environment friendly displays.

There are various technologies in use, some are declining, some only emerging in these days, like:

- liquid crystal displays (LCD)
- e-paper technologies
- organic light emitting diodes (OLED)
- plasma display panels (PDP)
- vacuum fluorescent displays (VFD)
- field emission displays (FED)



Source: Merck KGaA

The global market for electronic displays is expected to exceed € 80 billion in 2008. TFT-LCDs dominate the overall FPD market with a share of 84 % and a production value of € 65 billion, while OLEDs will exceed the € 1 billion mark for the first time. By 2011, TFT-LCDs are forecasted to approach 3 billion units and 120 million square meters, while OLEDs could reach the 200 million units and € 1.8 billion in revenue.

## Why you should join DFF now

- Meet your potential customers and suppliers
- Understand the technology and market dynamics of the flat panel display industry
- Obtain free access to our
  - Regular working group meetings,
  - Quarterly newsletters,
  - Conference and trade show reports,
  - Flat panel display market information.
- Obtain discount for our
  - Training workshops,
  - Joint pavilions at international trade fairs,
  - FPD Branch Directory(your company's profile in the DFF Competence Brochure)

No matter what part of the added-value chain you are active in and irrelevant of what display technology or application catches your interest, the DFF has something valuable to offer you!

For joining the DFF, please contact the DFF secretariat or directly download the application form at [www.displayforum.de/member.html](http://www.displayforum.de/member.html)

### German Flat Panel Display Forum (DFF)

A working group within VDMA



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## DFF – German Who we are Flat Panel Display Forum



Cover picture: Sharp Electronics Europe GmbH

A working group within



## Vision and Mission of DFF

DFF enables its members to attain and sustain a leading position in FPD industries.

DFF catalyses and expands a network of excellence across the entire value chain, leading to new business opportunities.

The mission of the **German Flat Panel Display Forum:**

- DFF provides a **unique networking platform** of leading companies driving the FPD industry.
- DFF provides a **unique source of information** for FPD market participants.
- DFF assists in identifying and assessing **business opportunities** at all levels of the FPD value chain and application areas.
- DFF assists to design the **supply chains** for the innovative FPD technologies of the future.
- DFF promotes **entrepreneurial competence and excellence.**



Source: BMW AG

The services provided to our members are tailored to give you a maximum benefit and value for money, and are thus grouped into the five pillars of our services to our members:

- Working groups and DFF advocacy
- News services
- Training and education
- Fairs and conferences
- Competence brochure

## Who we are

Founded in February 2000, the German Flat Panel Display Forum is a working group within the VDMA (German Engineering Federation).



Source: Novald AG



Source: i-sft GmbH

Of German origin, the DFF now is a growing international organisation of more than 65 member companies and institutions from all parts of the flat panel display community:

- research institutes
- material and component suppliers
- manufacturing and process equipment suppliers
- flat panel display and module manufacturers
- system integrators and distributors
- display end users

As a member-driven association, the DFF is guided by an active Board, comprised of industry and research institute executives.

## VDMA

The DFF is an integral part of the VDMA division "Innovative Business" which expands the activities of the VDMA in the field of new technologies such as organic electronics, productronics and micro technologies.

Nearly 3000 member companies from the investment goods industry make the VDMA the largest industry association in Europe.

## Board

### Chairman FPD Applications

Peter Bullen  
i-sft GmbH



### Chairman FPD Technologies

Robert Isele  
BMW Group



Dr. Werner Becker  
Merck KGaA



Prof. Dr. Karlheinz Blankenbach  
Pforzheim University



Wolfgang Mildner  
Poly IC GmbH & Co. KG



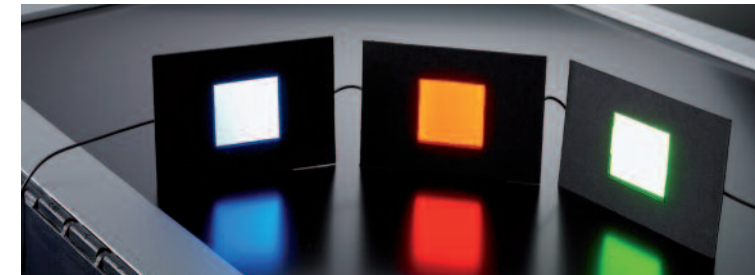
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Source: Novald AG