

# E-Paper displays

Maximum performance with minimum power consumption



Passion Displayed



## Brilliance without compromise

### Convince yourself of E-Paper technology

E-Paper displays are based on the principle of bistability, which means they only consume power when the image content changes. The technology is ideal for applications where image content remains static over long periods of time and does not need to be updated frequently. E-Paper displays are extremely energy-efficient and ideal for continuous operation.

Another major advantage is that they are reflective displays and thus do not require additional lighting as long as ambient light is available. Even in direct sunlight outdoors, E-Paper displays offer impressive readability and an extremely wide viewing angle. These features make them an excellent choice for demanding applications in various fields.

### We offer numerous value-added options

- ▶ Front lighting options for applications that require additional brightness
- ▶ Optical bonding to improve optical performance
- ▶ PCAP solutions for simple and user-friendly operation
- ▶ Customised driving solutions
- ▶ Content management support
- ▶ Individual integration concepts



## Fulfilling your needs is our top priority

Your advantages at a glance



Sunlight readable



Wide viewing angle



Always on



Extremely low power consumption



Crispy images similar to printed paper



Easy on the eyes (compared to TFTs no light emission)

## Wide range of models available

### Product overview

Diagonal	< 1" to 42"
Structure	Standard or flexible E-Paper
Colours	Monochrome, 3-, 4-, 7-colours up to full-colour (max. 65,000 colours)
Scope of services	E-Paper displays up to the finished monitor

### Future priorities

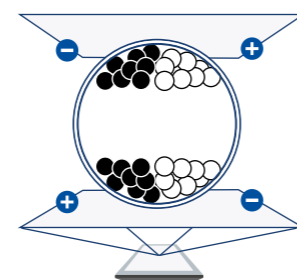
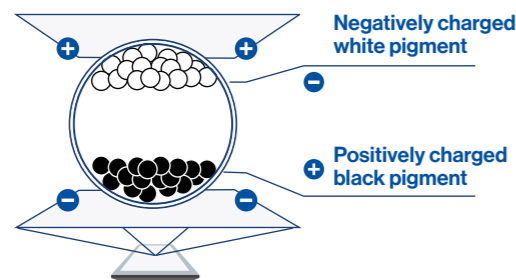
- ▶ Improved colours
- ▶ Extended operating temperature range
- ▶ Faster switching characteristics

DATA MODUL is looking to accompany you on the exciting journey in bringing E-Paper-Displays into many more applications.

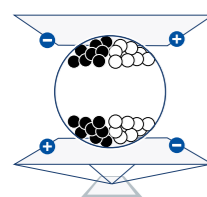
## The key to brilliant & energy-saving displays

### Structure & functionality

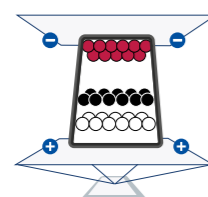
Electronic ink is made of millions tiny micro-capsules. Each capsule contains charged black and white ink particles suspended in a clear fluid.



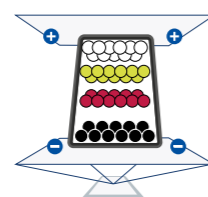
When an electrical field is applied, corresponding particles become visible at the top of each capsule. The charge can result in half white and half black surface.



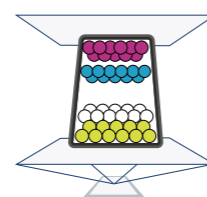
2 particle



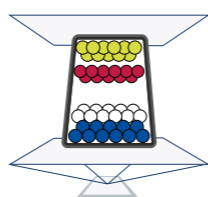
3 particle



4 particle



Advanced Colour E-Paper (ACeP™)



New! Spectra 6

## Suitable for indoor & outdoor use

### Possible applications for E-Paper displays



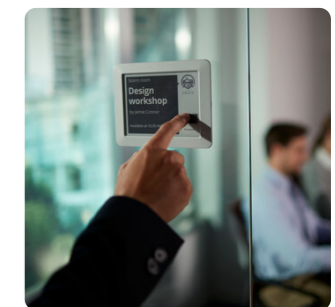
Smart Retail



Smart City & Signage



Smart Hospital & Medical



Smart Logistics, Factory & Office

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# DATA MODUL

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## All good things come in threes:

With **Hardware**, **Software** and **Services**, we realise unique display solutions that turn your ideas into reality.

[www.data-modul.com](http://www.data-modul.com)

