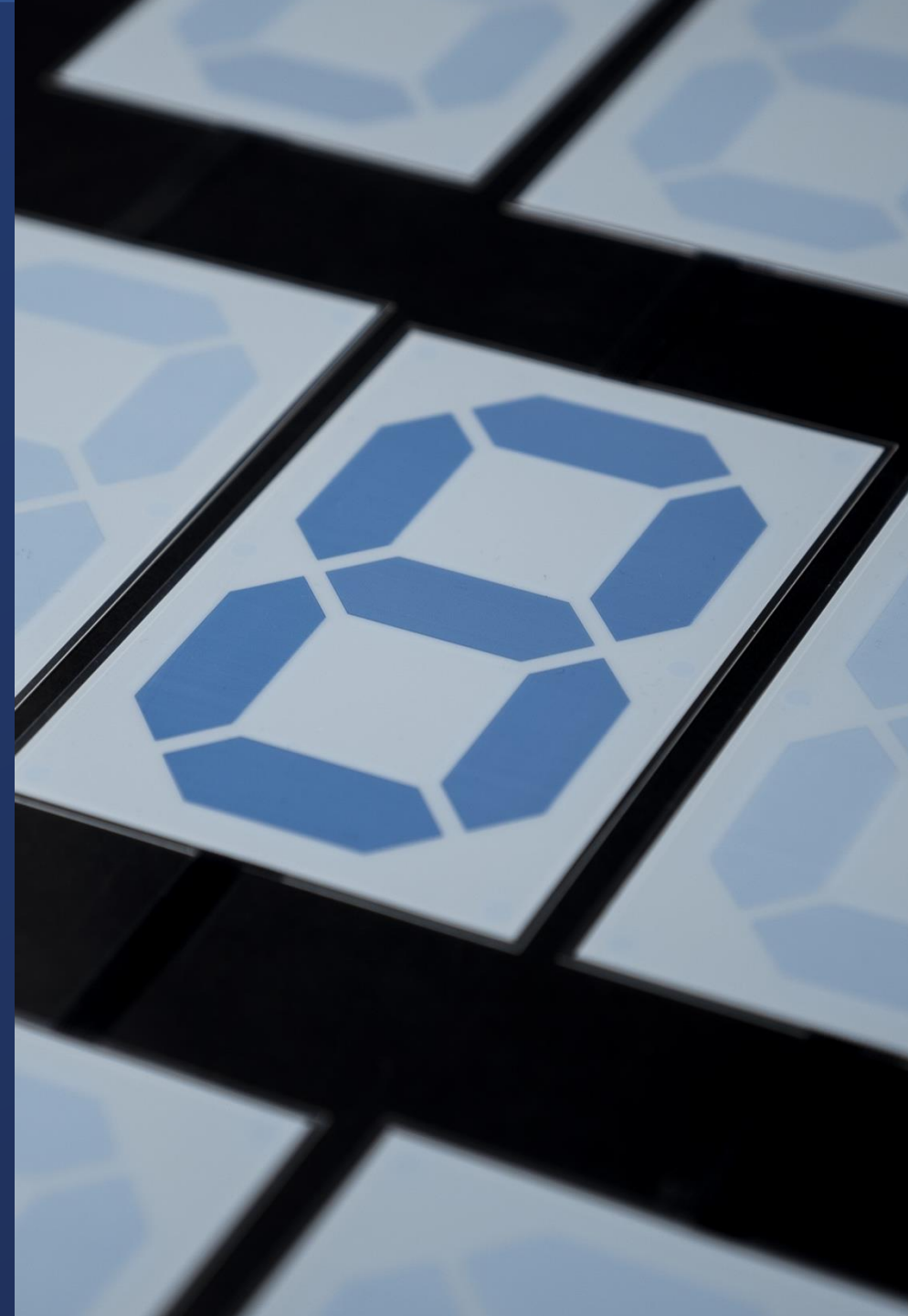


ynvisible

Printed E-paper Displays

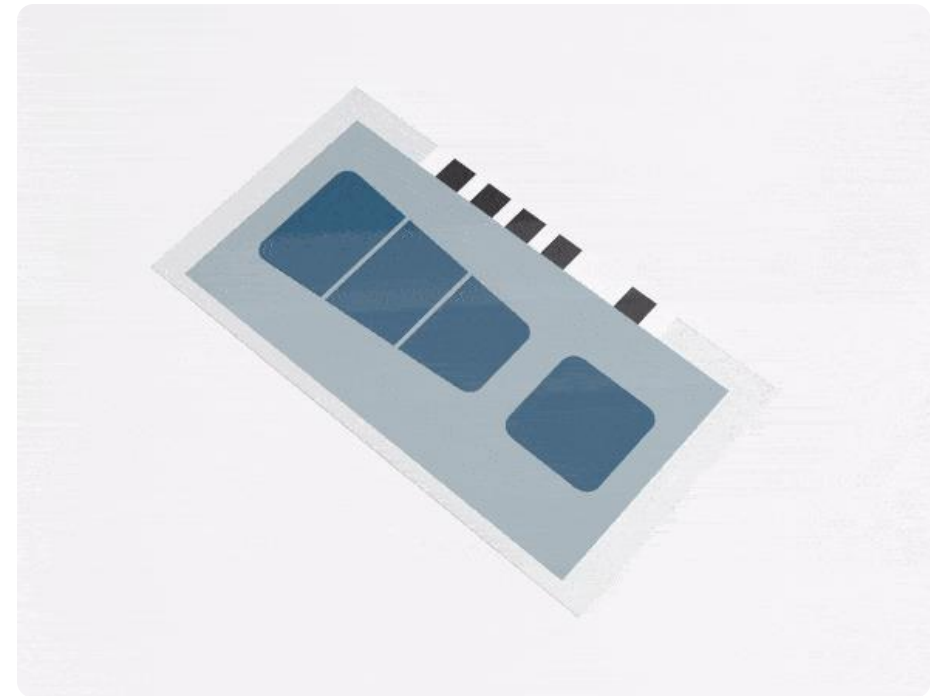
Innovation and Applications Revolutionizing Display Technology



Printed e-paper displays
Printed Electronics Technology

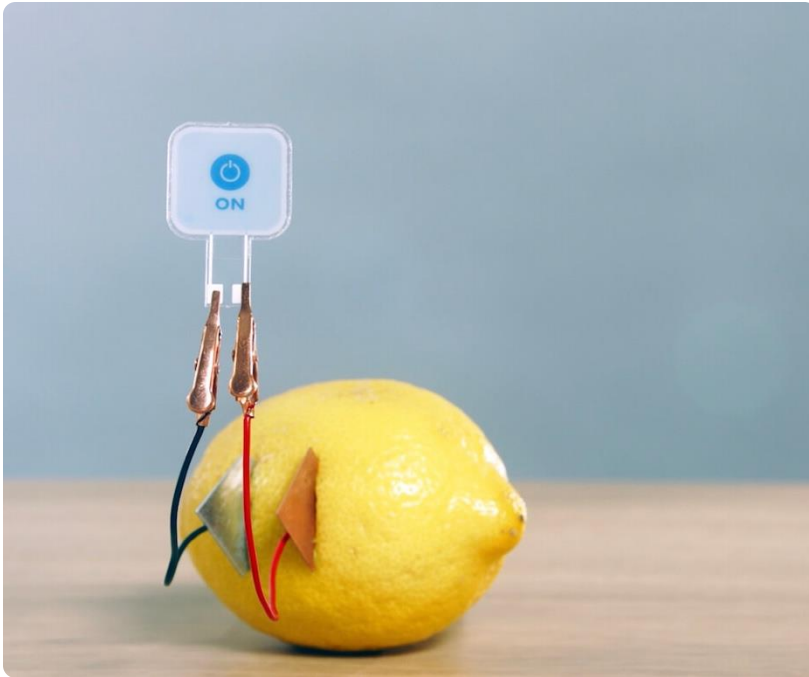
We produce **ultra-**
low-power printed
e-paper displays
tailored to your needs.

Experts in printed electronics and manufacturers
of customized displays based on [innovative electrochromic
technology](#).



Printed e-paper displays

Low-Power Technology



Most energy-efficient printed displays on the market

Ideal display for battery-driven or battery-less IoT devices.



Low-Power
< 1 $\mu\text{W}/\text{cm}^2$

Ideal for battery-driven or battery-less IoT devices. It's the nanowatt era.



Bistable
Image Memory

Doesn't require constant power to keep the display on.



Low Voltage
1.5V - 3V

Operated at lower voltages. Ideal for power sensitive applications.

Printed e-paper displays

Thin & Flexible Technology

Thin & flexible with endless design freedom

Experiment with different shapes, forms, and colors.



Thin

< 300 μm

Micron thin displays fit for a wide range of wearables and other products.



Flexible

10 mm radius

Highly flexible displays fit for a wide range of applications.



Customizable

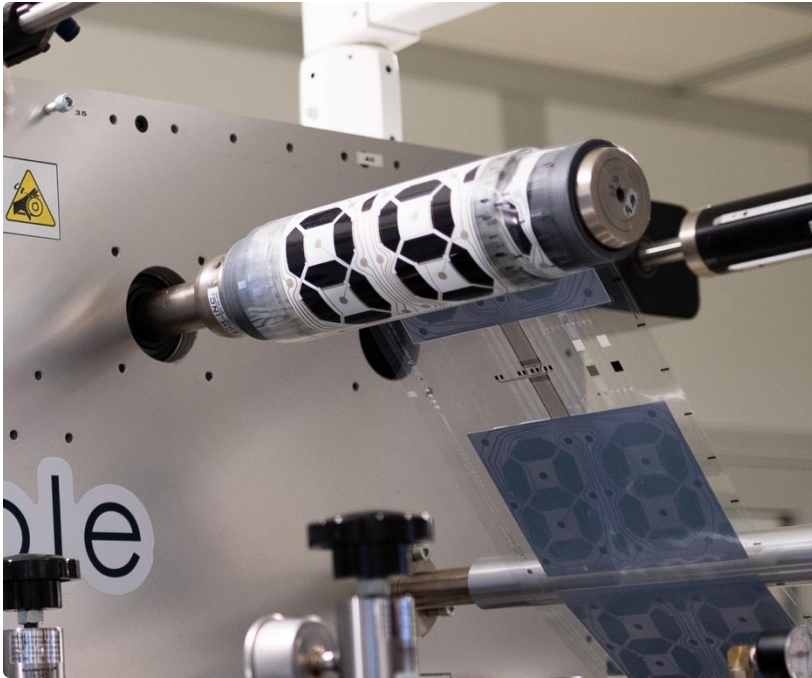
Colours & shapes

Letters, symbols, numbers, and graphic elements are all possible.



Printed e-paper displays

Cost-effective Technology



Cost-effective production and integration

Use Ynvisible's e-paper to reduce system and component cost



Cost Savings Competitive Pricing

Roll-to-roll screen-printing means ultra-low-cost mass production.



Easy to Drive No extra Components

Direct drive from the IC to each display contact/segment.



Easy to Integrate ZIF, ACF or Glue

Versatile technology that provides different possibilities for assembly.

Printed e-paper displays

Sustainable Technology

Eco-friendly & sustainable e-paper display solution

Additive manufacturing process with low carbon footprint.



Less E-Waste

Low metal usage

Low metal consumption compared to other display technologies.



Non-Toxic

No toxic materials

No toxic and rare earth materials used in manufacturing.



Reusable

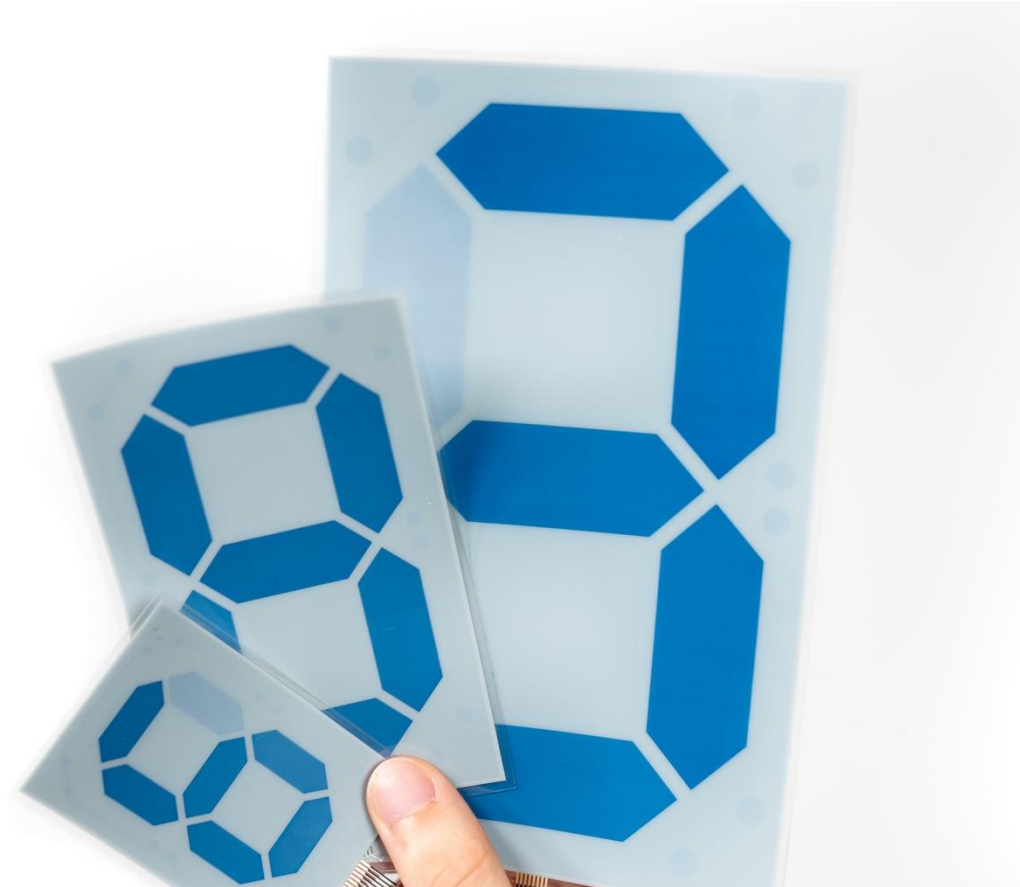
Unlike static paper

E-paper suitable for multiple times usage applications.



Printed **E-paper** vs **LCD**

The Most Sustainable Display Technology



Ynvisible E-
paper Displays
are the **Most
Sustainable
Display Option**

-200XCO₂

Carbon Footprint

** Preliminary Findings*

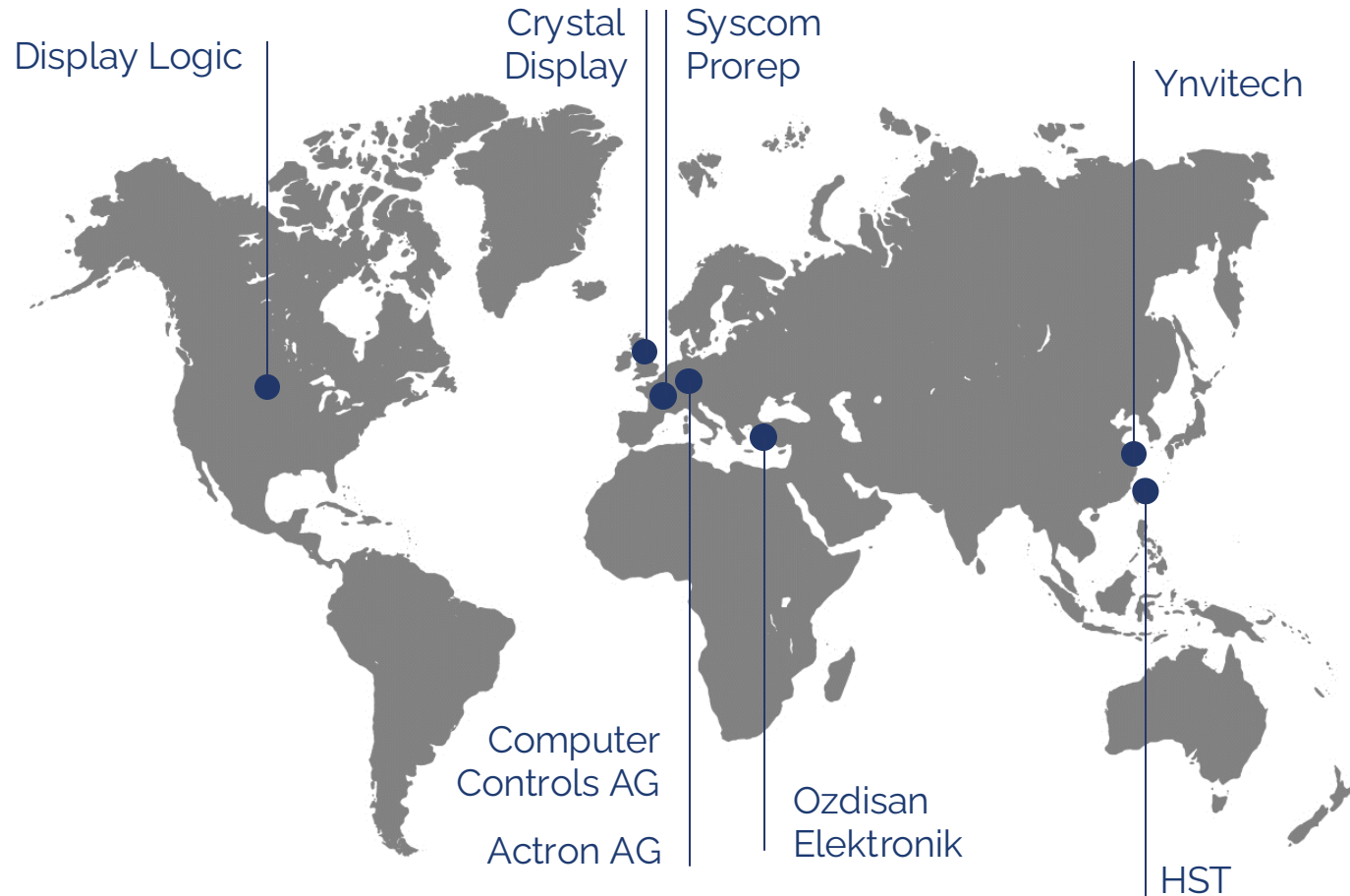
Printed e-paper displays
Ynvisible Technology



The most **sustainable**,
energy efficient
and **customizable**
electronic displays!

Ynvisible

Distribution Network and Market Reach



We **commercialize printed e-paper products** using a **global distribution network!**

ynvisible

Innovative Technology

From Idea to Mass Production



Manufacturing Process

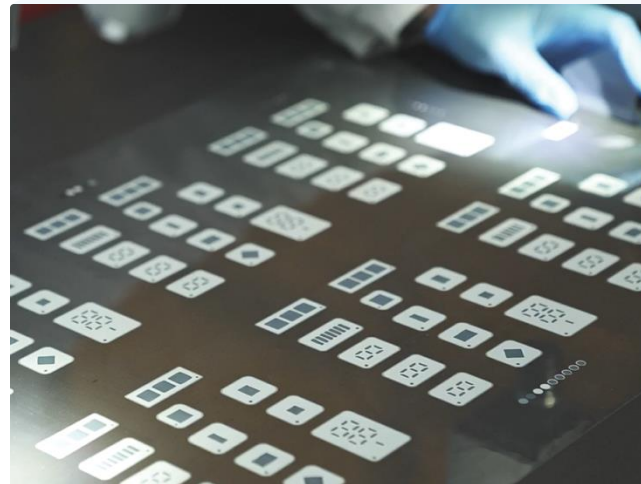
From idea to mass production



Prototyping

Sample Production

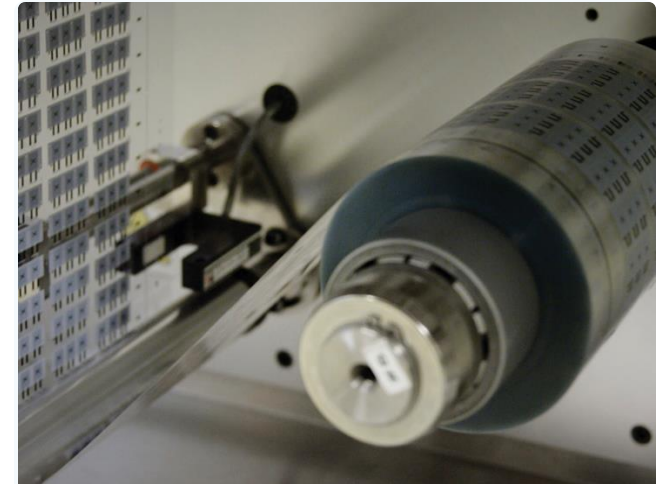
Rapid and cost-effective prototype production with your customized display design



Sheet to Sheet

Low Volume Manufacturing

Production suitable for low volumes and pilot runs for verification and validation.



Roll to Roll

High Volume Manufacturing

Mass production of printed displays and contract manufacturing services

Sheet to Sheet Production

Rapid and Cost-effective Displays with Your Design



Prototyping

From sketch to delivery in a few weeks with your specific display design.



Fixed fee of **3.500 EUR** for customized display prototypes



Low Volume

Suitable to produce low volumes between 1000 and 5000 units.



Design Support

We help you throughout the entire design process



Volume Production

Displays Mass Production & Printed Electronics Manufacturing Services



Printing

Versatile printing and coating equipment.



Cost effective production for customized display solutions



Conversion

Slitting, cutting and lamination capacities.

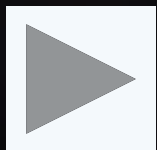


Quality Assurance

Automated production with electrical and optical testing.



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Signage Applications

Key Case Studies





Battery-Powered Digital Signs

Dynamic Daily Prices



Solar-Powered Digital Signs

Signage in Remote Locations



Battery-Powered IoT Devices

Parking Systems



Public Information Displays

Public Information Boards



Emergency Displays

Low-energy, Portable Emergency Devices

Thank You!

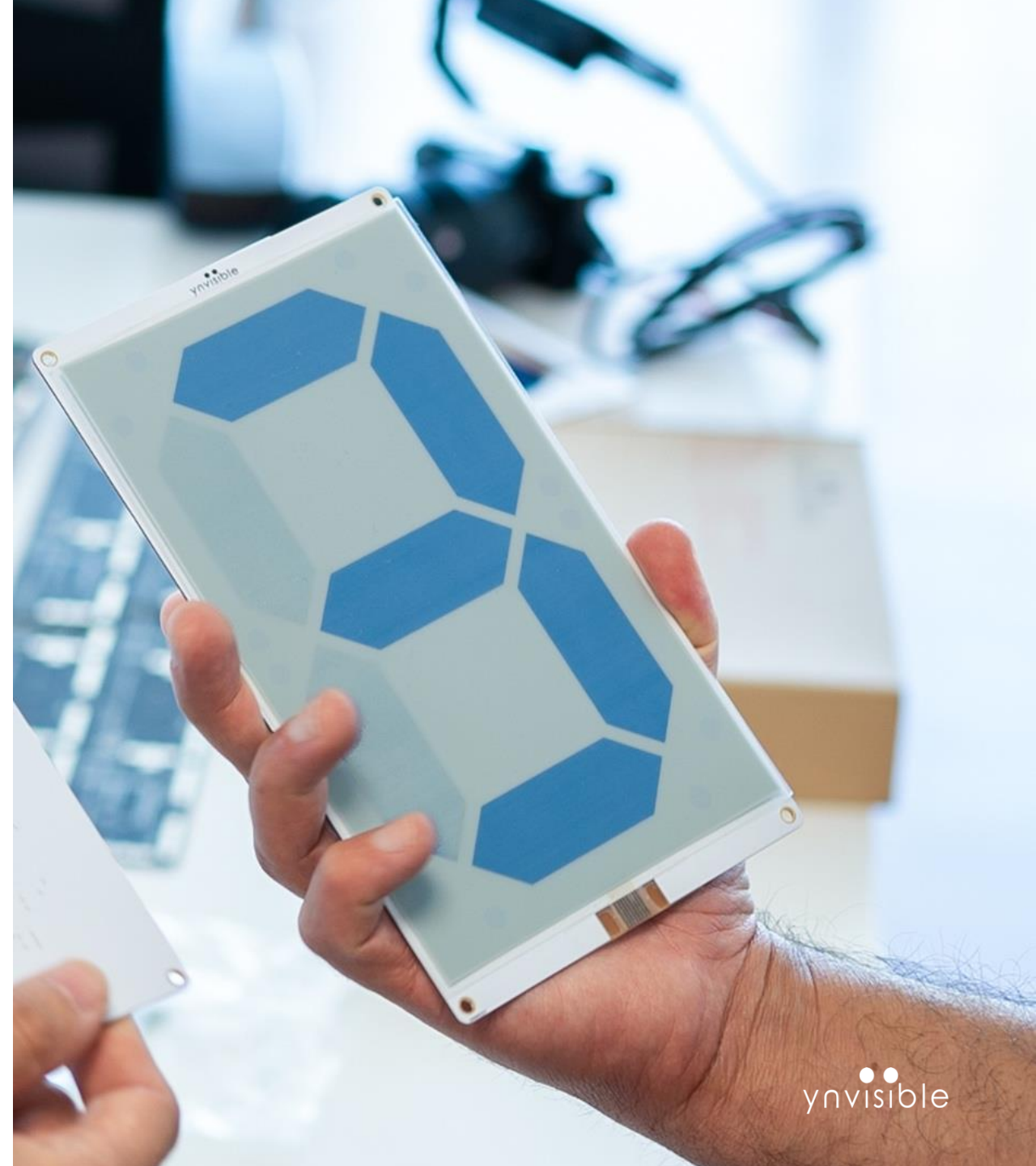
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Printed E-paper Displays

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