

Holitech Europe GmbH

Tech Talk - Smart Home

TFT, Monochrome and ePaper Displays, Camera Modules and Touch Solutions for Smart Home Applications

Holitech Smart Home Applications





Holitech Europe - Introduction





Holitech Europe GmbH Klaus-Bungert-Straße 5a 40468 Düsseldorf Germany

Office

Located in a new building, offering efficient working areas, modern architecture and excellent national and international traffic connections.

A Holitech Group Company

Displays, ePaper, CCM and other solutions for a high variety of applications.

Dedicated European support team

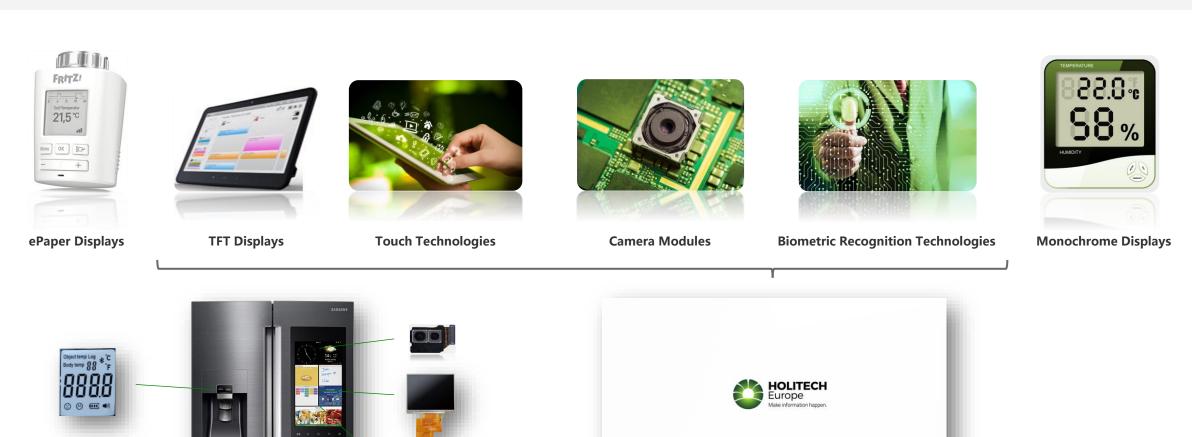
- Sales
- Marketing
- Technical Support

- Supply Chain
- Logistics
- Quality

Holitech Smart Home Applications



As a leading manufacturer and solution provider for the complete development of Human Interface products and applications, Holitech offers:



Monochrome Display Solutions



- Positive (normally-white) and negative (normally-black) mode
- Reflective, transflective and transmissive
- Multicolor printing
- With or without backlight
- Wide-temp, automotive grade, Op: -30~85°C, St:-40~90°C
- Unusual shapes, round edges
- Glass size thickness: 1.1, 0.7, 0.55, 0.50 and 0.4mm

All Technologies

TN

- DFSTN
- HTN
- ESTN
- ETN
- ASTN
- STN
- DSTN
- FSTN
- EBN















TFT Solutions



- Standard sizes 1.44" 15.6"
- Designed by customer requirements (viewing angles, optical compensation, backlight, brightness interconnect, slimming etc.)
- 16:9/18:9 display screen with different resolution
- TN, VA, IPS, FFS, LTPS etc. technologies
- MIPI / USB / RGB interface

Complete LCD-Modules

- TFT
- Back Light
- Cover Glass
- Touch Panel
- Camera Module
- Fingerprint Module
- Housing
- FPC
- AG, AR, AF Treatment









Touch Solutions



single and multi-point touch, up to 40 touches



PET film and glass based substrates

SITO, DITO, OGS

single and dual-layer glass stacks, single and dual-layer film stacks



wide range of controllers supported including

Atmel® maXTouch®

(Stand-alone sensors with or without controller also available)



bonding to display

optical bonding using liquid glue standard bonding with air gap using DST

bonding to cover lens

using liquid glue or film OCA



COB and **COF** designs

ePaper Displays – Smart Home





Strong cooperation between HT and E-INK in order to promote solutions for ESL, Smart Home, Intel. Retail, Intel. Storage & Intel. Logistics

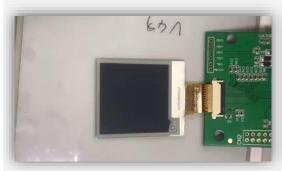
+ Sunlight viewing ability + Low power consumption + 180° viewing angle + Paper-like feeling + Good for vision health + Strong black-whitecontrast ratio Disadvantages - Slower response time - Slower switching speed - Narrow temperature range

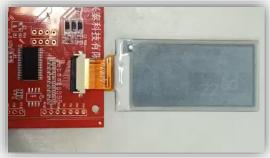


H-INK ePaper Display Solutions



- Dot-Matrix and Segmented ePaper Displays
- Most sizes are available in:
 - Black-White
 - Black-White-Yellow
 - Black-White-Red
- Low-temperature solutions available (below 0°C)
- No MOQs for standard displays
- Samples as well as demo boards available
- Short lead times
- Possibility of having grey scales for some sizes
- Possibility to add CTP starting from 10kpcs/year
- Possibility to offer products with front light (White or RGB)
- Huge production capacity (up to 5kk/month)





Dot-Matrix Displays

- Intended when many forms of text and images are required
- Displays comprise large array of pixels (controlled by TFT)
- Holitech offers a range of standard products for 1.3" up to 32.5" with a wide variety of resolutions

Segmented Displays

- Intended for applications with predefined segments
- Mostly customized solutions



Black-White-Red EPD



Segmented Black-White EPD

Camera Modules



- Fully customized CCM (Lens, FPC, Interface)
- COB / CSP resolution
- TOF
- Wide FOV (120 degree)
- Single/Dual camera
- Fixed / Auto focus / LED aimer
- VGA/2M/3M/5M ... 13M/21M with FF/AF/PDAF/OIS series

TOF Camera Modules











Gesture recognition

Face recognition

Object recognition



econer.

Doorbell Camera









Smart Oven Smart Fridge

THANK YOU!







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