



faytech

**COMPANY
PROFILE**



About Us



Specialist in Touch Monitors, Touch PCs & Optical Bonding

Operating on a **global basis**

In-house **Design, Development, Manufacturing** and **Marketing**

German engineered products, **manufactured in Asia** with **local service**



12+ Years

FOCUS ON THE NICHE OF TOUCH DEVICES

800,000+

TOUCH DEVICES SOLD WORLDWIDE

10,000+

MONTHLY OUTPUT CAPACITY FINISHED DEVICES

30+

GLOBAL BRANCHES AND DISTRIBUTORS

60+

SPECIALISTS AND ENGINEERS

20,000+

MONTHLY OUTPUT CAPACITY OPTICAL BONDING & TOUCH PANEL PRODUCTION



Milestones

8 employees

Start of production in Shenzhen, China with 8 employees on 650m²

Start international distribution

2010 / 2011

40+ employees

Start development cooperation with ASUS

SGS ISO 9001:2008 certification

2012 / 2013



70+ employees

faytech Service GmbH is established in Germany

Start production capacitive multi-touch products (also large sized)

Introducing optical bonding & chemical etching

2014 / 2015



150+ employees

Moving to new factory premises of 3400m²

Significant expansion and investment in equipment

faytech Service GmbH turned into faytech AG (joint-stock venture)

SGS ISO 9001:2015 certification

2016 / 2017

faytech AG



280+ employees

Introduction of open frame monitors, faytech flat and mirror series

NAV ERP-system Roll-out in Germany (2018) & China (2019)

Opening faytech Japan, faytech India and opening of new factory in Suining of 16,200m²

Microsoft and Intel Gold partner

Received E-mark certification (automotive)

2018 / 2019



340+ employees

faytech products listed on Intel's solution provider marketplace

Partnership with Dell, ensures faytech products are listed in their portfolio

Introducing anti-microbial coating technology (Kastus®)

IATF 16949 conform (automotive)

2020



370+ employees

Launch of faytech's new website

Opening of faytech Korea

Significant investment into new machinery

Introduction of faytech's first industrial tablet

2021



Many milestones still to come for 2022!

2022



PYRAMID

2022 is a very special year for faytech, as we are becoming a part of the **Pyramid AG group**, which allows us to truly focus on our growth, innovation and competitive advantage in the touch devices market.

With the integration we increase our global reach, will have a higher efficiency on product innovations and shall leverage on synergy effects to offer you further improved products and services providing a real competitive advantage in the field of touchscreen devices.

Together with **Pyramid AG** team, we can build a pioneering center of competence and innovation for **P.O.S.**, **QSR** and **industrial touch devices**. Together, we have the potential to become the global market leader in several lucrative market niches.

Date of faytech AG
& Pyramid AG deal

Q1, 2022

Pyramid AG group
revenue expectations

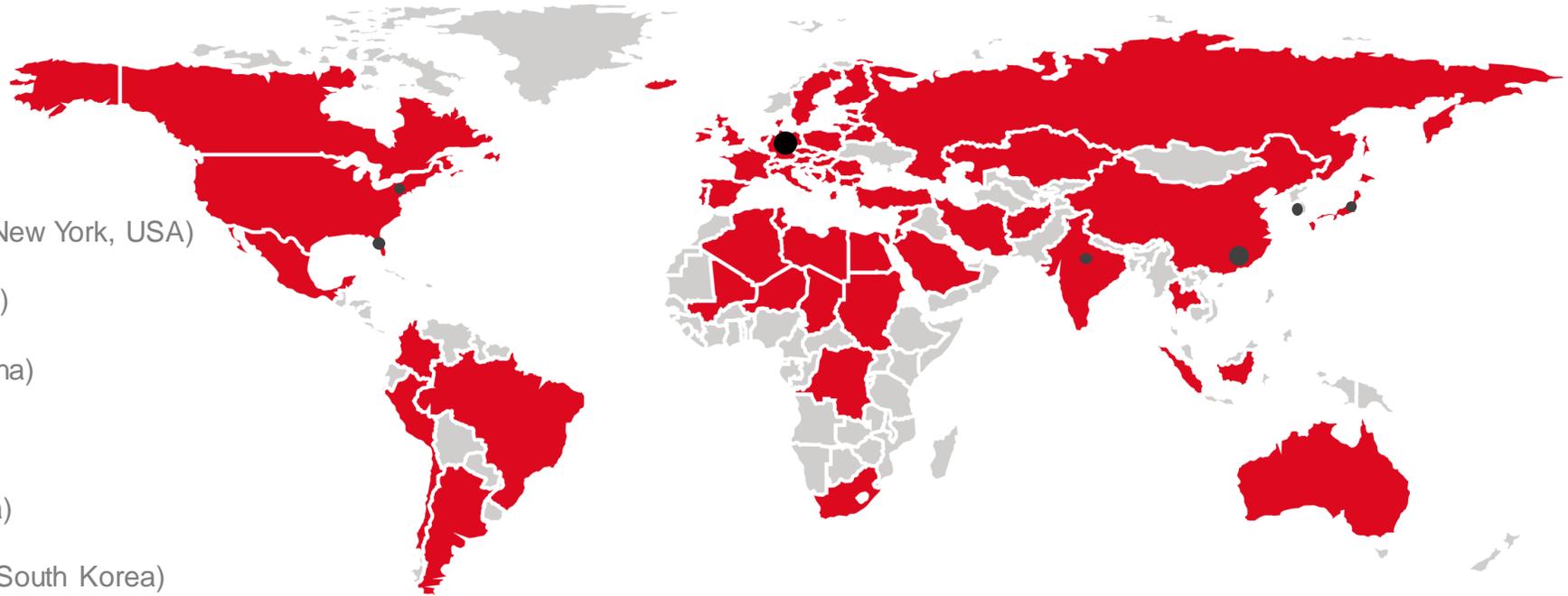
2022 (e) **USD 100 Million**
2023 (e) **USD 120 Million**

About Us

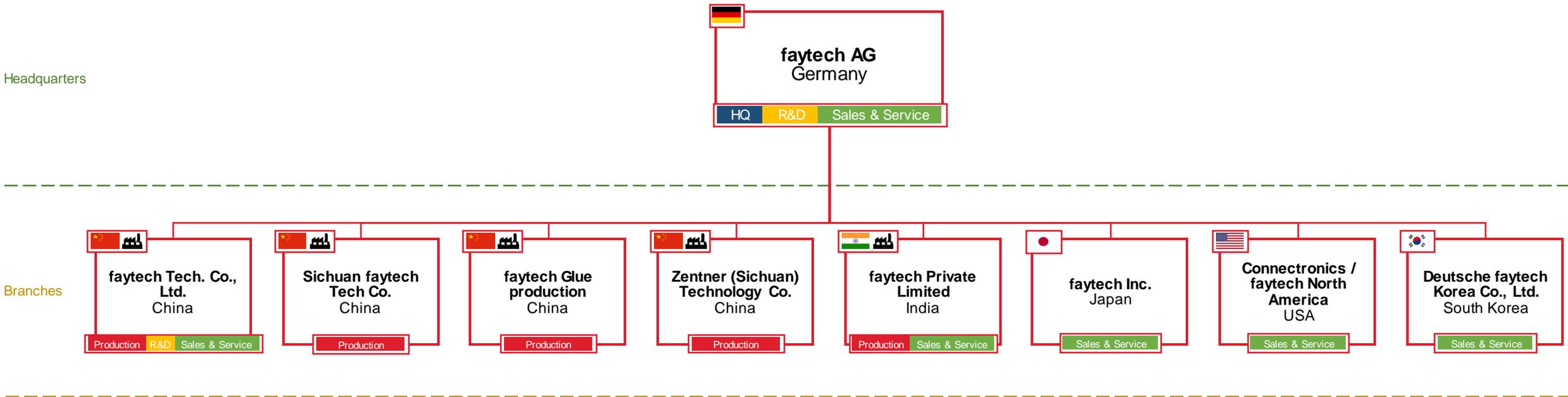
Founded	March 27, 2009	Global Employees	370+
Headquarters	faytech AG (Witzenhausen, Germany)	No. of Technology Patents	24 (7 pending)
CAGR 2009 – 2020	35%	Revenue invested into R&D	10.2%
Consolidated Revenue 2021 (based on global company ownership)	USD 31.8 Million	Standard products in portfolio (excluding projects & accessories)	92

Represented by:

-  **faytech AG** (Witzenhausen, Germany)
-  **faytech US dba Connect Tronics LLC** (New York, USA)
-  **faytech Tech Co., Ltd.** (Shenzhen, China)
-  **Sichuan faytech Tech. Co.** (Suining, China)
-  **faytech Inc.** (Tokyo, Japan)
-  **faytech Private Limited** (New Delhi, India)
-  **Deutsche faytech Korea** (Seongnam-si, South Korea)



Simplified Structure of the faytech AG Group



Products and Services

Standard Productportfolio

2 Years Warranty

Touch Monitors

Capacitive Touch Monitors

Resistive Touch Monitors

IP65 HB Touch Monitors

Open Frame Capacitive Touch Monitors

Realtek 2795 / 2662 / 2556 / 2271 / 2270
Mstar V59

Touch PCs

Capacitive Touch PCs

Resistive Touch PCs

IP65 HB Touch PCs

Embedded Touch PCs

Intel Celeron DualCore N3350
Intel Pentium QuadCore N4200
Intel Core i3-7100U processor
Intel Core i5-7300U processor
Intel Core i7-7600U processor
Intel Elkhart Lake (Q2, 2022)
Intel Tiger Lake (Q2, 2022)

ARM V40 QuadCore
ARM Rockchip RK3399
Amlogic A311D
Amlogic S905

Special Products

Industrial Tablet
faytech flat
Mirror PCs
Hygienic Solutions
Shopping Cart
Kiosk Systems
Box PCs



Windows

Android



Linux

Chassis Options

Standard

Rubber Frame

Open Frame

Project

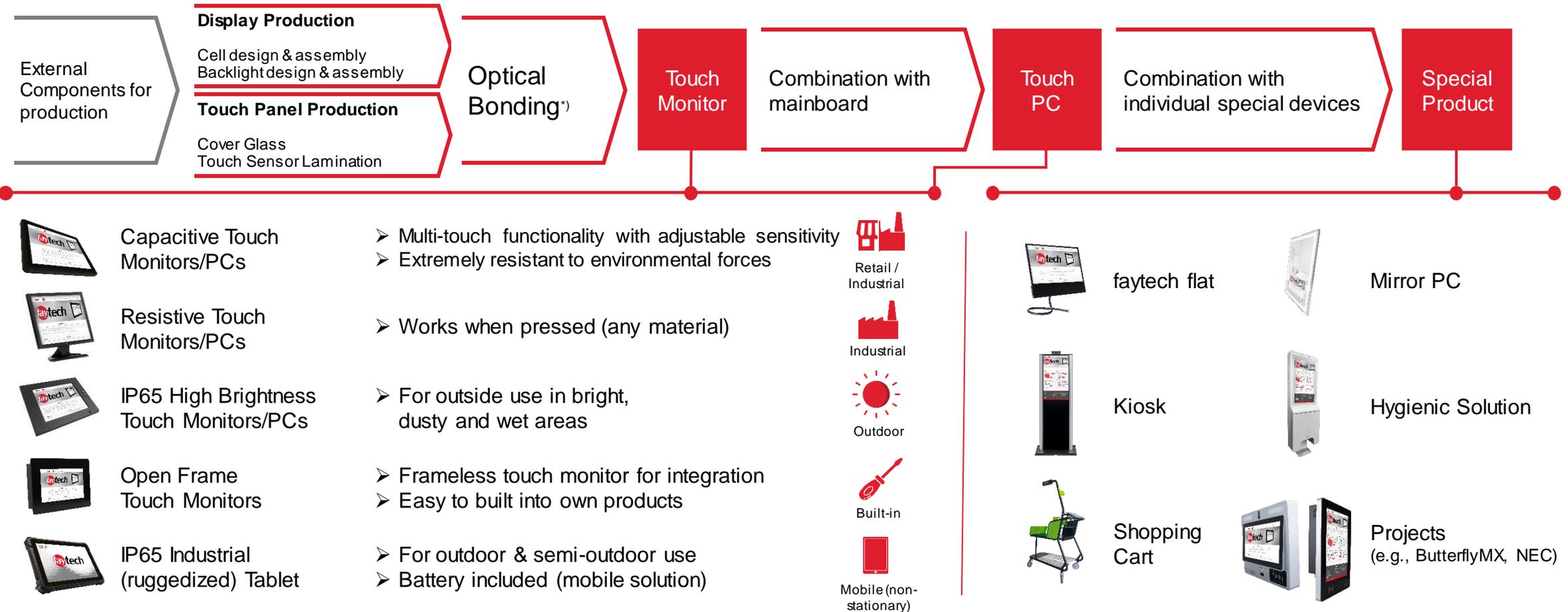
Aluminium Frame

Customized Frame



faytech covers the whole **value chain**, from cell and backlight design & assembly, to **optical bonding** and eventually the integration into a final product: **Touch Monitor**, **Touch PC** or a **Special Product**.

Value Chain (simplified)



External process In-House production step Product

^{*)}The process of connecting the display with the touch panel using our own silicone glue

- **Touch Panels**

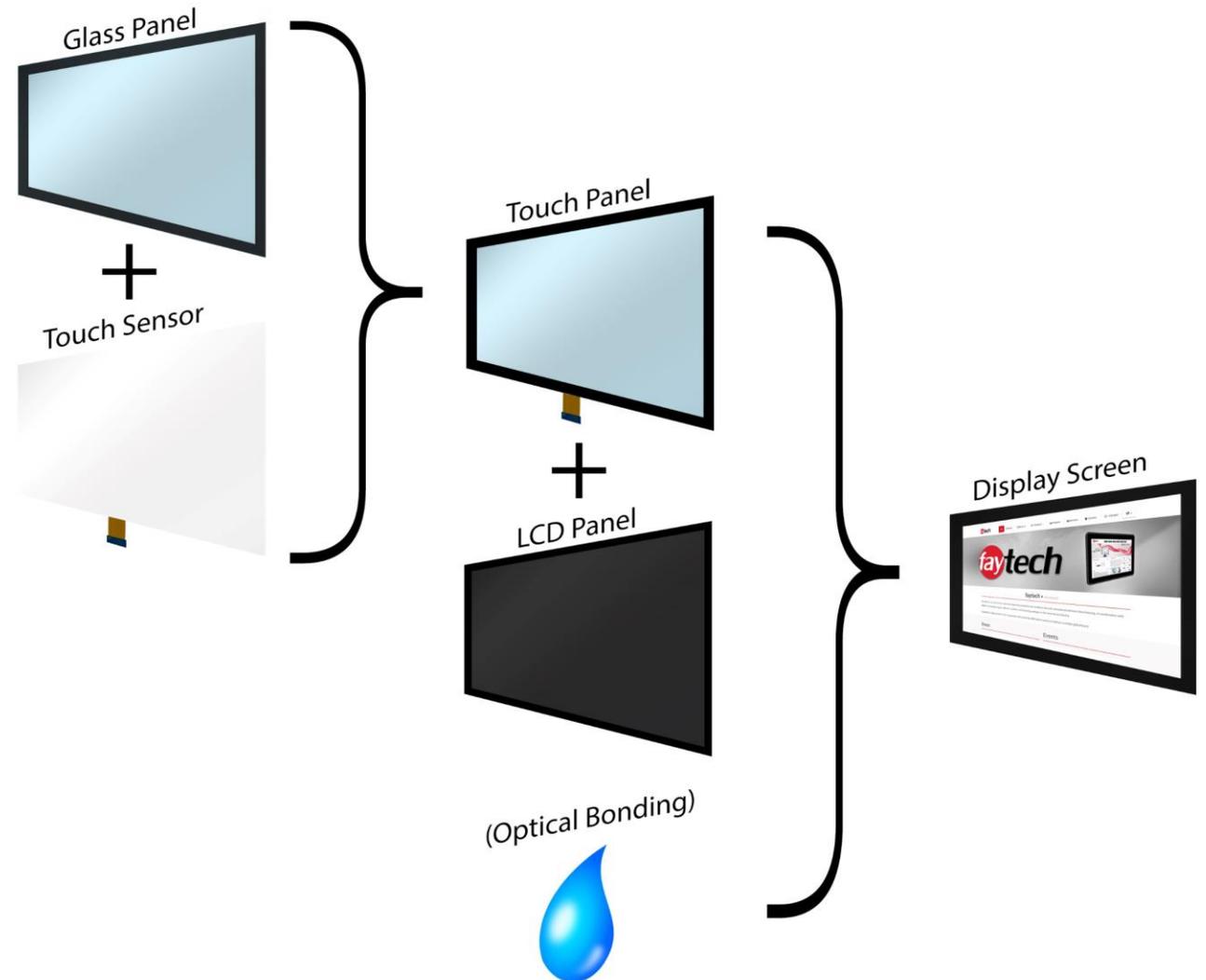
- Resistive touch panels
- Capacitive touch panels

- **Touch Sensors**

- Adjustable sensitivity
- In-house design
- In-house firmware tuning
 - Gloves & water (raindrops adjustments)
 - Capacitive Touch Stylus support

- **Display Panels**

- High brightness tuning: 1000 / 2500+ cd/m²
- 100k hours backlight
- Full-array & Edge backlight



- **Main Coating & Etching Technologies**

- Kastus anti-viral & anti-bacterial coating
 - + Activated by natural light
 - + Lasts complete lifecycle of device
 - + active 24/7, day and night
 - + Permanently blocks up to 99.99% of bacteria
 - + Effective results against Human Coronavirus
- Anti-Glare (chemical etching)
 - + chemical etching, allowing for more flexibility
 - + Reduces glare and reflections
 - + Resilient to scratches and fingerprints

- **Other Coating Possibilities**

- Ultraviolet (UV) Coating
- Infrared (IR) Coating
- Anti-fingerprint Coating

- **Other Customizations**

- Cover glass
 - Dimensions / design
 - Thickness
 - Printing
- Customizable FPCs

Anti-viral & anti-bacterial coating

KASTUS[®]
Innovating Surfaces For Life™



Anti-glare (chemical etching)



Other coating possibilities



How Does Kastus' Technology work?

While natural light is the primary method of antimicrobial activation on a Kastus[®] coated surface, our technology also contains a patented ingredient that continues to fight pathogens in the dark. Ensuring 24/7 protection.

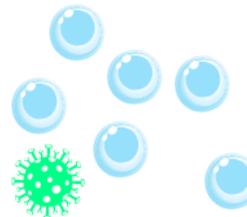
1

Light activates the coating



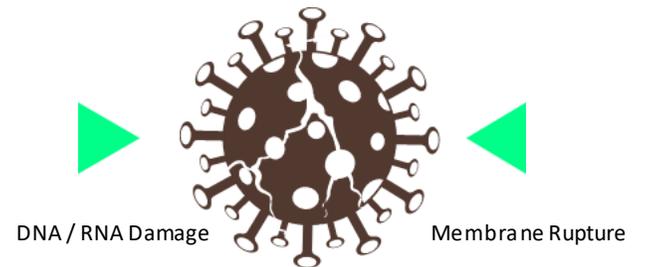
2

Continuous cloud of reactive oxygen species produced



3

Virus / Bacteria is destroyed



KASTUS COATING



GLASS

Optical Bonding

- Own Patented Technology
- In-house Production, Rigorous Quality Inspection
- Expertise in Large Size Optical Bonding
- High Performance/Cost Ratio
- World Leader in Large Size Optical Bonding
- Optical Bonding of OLED & E Ink Devices



Optically Bonded 32" E Ink Display

Look for the **CLEARBOND** Logo
All products with this logo are Optically Bonded in-house by faytech!



[Competitor Comparison video](#)

See the difference Optical Bonding makes!

Optically Bonded Double-sided
55" OLED Touch Monitor



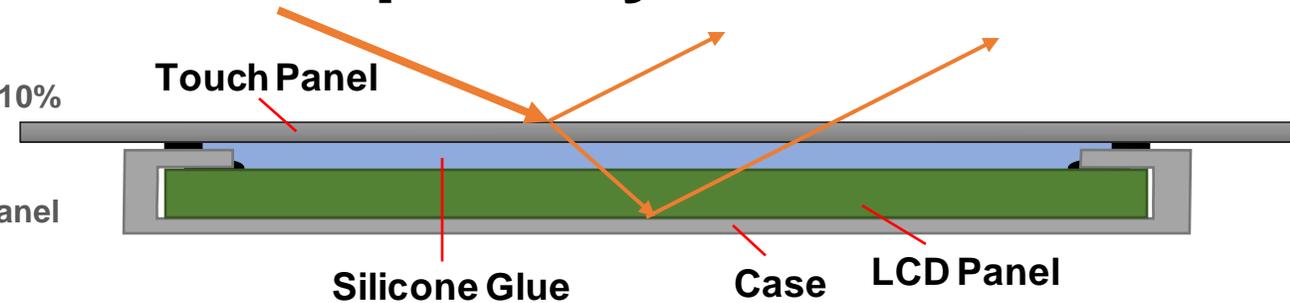
Better Display Quality

- Less refraction—Comparing to air bonding, optical bonding reduces refraction up to 65%
- The perceived brightness of LCD enhanced up to 10%
- Insusceptible to condensation and dust particles
- Solid connection between touch panel and LCD panel

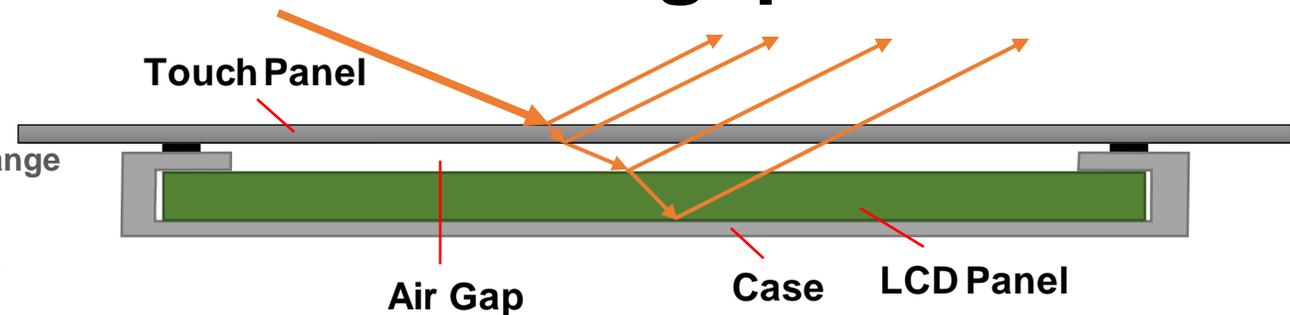
Better Performance Than Acrylic

- Better curing—Silicone glue cures more evenly
- Less internal stress—During curing, the contraction rate for acrylic is 4%, whereas only 0.1% for silicone glue
- Better control over hardness—the hardness of silicone glue can be manipulated within a wider range
- No yellowing—Acrylic yellows over time due to ultraviolet radiation, silicone glue does not yellow

Optically Bonded



Air gap



Certifications



- ISO 9001:2015
- CE
- FCC

Upon Request:

- UL
- CCC
- CE 'Category B'



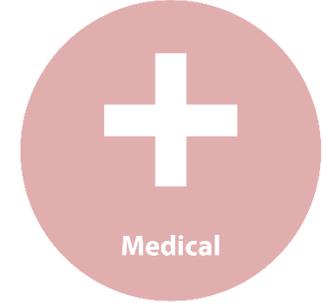
- RoHS III Compliant



- IATF 16949

Upon Request:

- E-Mark certification



Upon Request:

- EN 60601-1

faytech guarantees extraordinary quality and consistency throughout the company, and in compliance with above certifications to ensure all products meet the internal rigorous quality standards.



Control Panel for Meiko's Commercial Dishwasher

Customer requirements

- Control panel for commercial dishwasher machine to operate 24/7 with long-lifetime
- Solution which is directly linked to the machine and network
- Touch solution, insensitive to water droplets (no ghost touches)
- Waterproof solution in an industrial environment

faytech's solution

- 7" Embedded Touch PC (V40) solution with Optical Bonding
- Customized internal i/o board to operate the dishwasher machine (with AC inputs, temperature sensors and PWM outputs)
- Capacitive touch with adjusted touch sensitivity, ensuring no ghost touches by water droplets
- Rubber front, when built-in allows complete IP65 waterproof solution
- Integrated Wi-Fi & 4G connection

IP65 Yacht PC

Customer Requirement

- Need of Touch device on a yacht for navigation
- Brightness controlled by buttons
- Completely compatible to use for navigating on the sea

faytech's Solution

- Integrated GPS
- High brightness IP65 PC with buttons
- Solid rugged case with mounting solution for yachts



10.1" Medical Touch PC

Customer Requirement

- Medical device with Capacitive touch function
- White case, to fit in with the hospital equipment
- Specialized connectors to work with hospital equipment

faytech's Solution

- Customized white case with customized connectors e.g. S-Video
- Certified EN60601-1 Device
- Capacitive touch PC with IP65 front





7" Mobile in-car PC

Customer Requirement

- Mobile in-car solution for transportation platforms
- Small, light but also robust and easy to install within a car or bus
- Exact location and speed information
- Certification for the automotive industry
- Withstand Short-Term Power losses

faytech's Solution

- Customized mainboard, with connectors for automotive
- Separate Monitor and PC
- Optically bonded, clear capacitive touch monitor
- Integrated microphone, speakers, 3G and GPS
- E-Mark Certification
- Extended voltage input

11.6" Building Access Control PC

Customer Requirement

- Outdoor application
- Readable in bright environments
- Visitor image acquisition
- Real time communication with resident
- Convenient admittance for residents

faytech's Solution

- IP65 front protection
- High brightness enhancement
- Webcam integration and extra illumination
- Loudspeakers and microphone integration
- RFID card reader integration



21.5" Mirror Touch PC

Customer Requirement

- Eye-catching display for retail section
- Multi-purpose screen with & without touch
- Android PC inside

faytech's Solution

- Optically Bonded Mirror PC screen
- Custom size
- Complete Ip65 protection
- PC inside with Android 6.0 installed

15" IP65 HB Capacitive Touch Monitor

Customer requirements

- Touchscreen device for locker terminal
- Water and dust-proof solution for (semi-)outdoor use
- High brightness display required for sunny days
- Capacitive 10-finger multi-touchscreen

faytech's solution

- Capacitive Touch Monitor with complete IP65 protection
- 1000+ cd/m² brightness for outdoor use
- Optically bonded Capacitive Touch panel



Global Cooperation with NEC in the Transportation Industry



55" IP65+ Capacitive Touch Kiosk

Customer Requirement

- Water and dust-proof Kiosk
- Outdoor use, extremely high brightness needed for sunny days
- Robust, heavy and rugged casing
- Touch screen needed

faytech's Solution

- IP65+ Kiosk with complete water and dust protection
- 2500 cd/m² brightness with active cooling
- Complete customized kiosk stand
- Optically bonded Capacitive Touch panel



21.5" Touch Monitor Kiosk

Customer Requirement

- Camera required
- Own graphics on case
- IP65 front
- Easy-to-use solution
- Solution on a PC

faytech's Solution

- IP65 protection front
- Customized case with graphics
- Camera integrated on top
- Integrated Industrial PC

21.5" Digital Signage Sanitization Station



Customer Requirement

- Solution to maintain hygienic guidelines
- Interactive kiosk solution
- Tool to measure body temperature
- Sanitizer Dispenser

faytech's Solution

- 21.5" Optically Bonded Touch Kiosk
- Integrated Hand Sanitizer Dispenser
- Thermal + Full HD Camera on top
- Wall or Free-standing Mounting options
- Monitor version or PC with Windows / Linux



10.1" Thermal Temperature Testing PC

Customer Requirement

- Solution to maintain hygienic guidelines
- Interactive device
- Tool to measure body temperature
- Card reader integrated
- Easy mounting solutions (VESA)

faytech's Solution

- 10.1" Optically Bonded Touch PC
- Integrated RFID scanner
- Thermal + Full HD Camera on top
- PC with Windows / Linux / Android

Interactive Shopping Cart "EASY Shopper"

Customer requirements

- Complete shopping cart "All-in-One solution"
- Multi functional panel with touch screen
- Scale, scanner, cameras, GPS, Accelerometer and more!
- 18h battery lifecycle time, also in Winter

faytech's solution

- Investment in pipe bending-, cutting-, punching-machines and a complete production setup
- Development of the complete shopping-cart electronics, including battery management
- TÜV-certification (battery certification)
- There is a container delivered to Germany every week using the "one belt road"





Why faytech is your best choice

ISO 9001:2015 production area
Class 100 and 1000 Clean rooms

- **Well-Trained Employees**
- **Chemical solvent resistance (IEC60068-2-45)**
- **IATF 16949 Conform (Automotive)**
- **Highly Flexible for Customization**
- **Touch Panel with Extraordinary Quality**
- **Rigorous Quality Inspection**
- **ISO 9001:2015 Certified**



We are always getting more experienced technicians on board!

- **15+ specialists in Germany** 
To analyze all European service cases, supporting the Production/Service interface of the company
- **25+ specialists in China** 
All with long-term working experience, complete expertise in their respective field, and each having a technical college or university background
- **5 CAD designers**
Setting the right base for any faytech product
- **Own R&D teams in both Germany and China + a global network of R&D partners**
securing that faytech follows highest quality standards
- **Project sample team of 10+ engineers**
in 2 factories
- **Large team of specialists:**
 - Mainboard specialists
 - Firmware designers
 - Touch controller specialists
 - Software developers
 - Backlight designers (HB)
 - Touch panel designers
 - PCB-board designers
 - Optical bonding specialists
 - BIOS & Image specialists
 - Glass coating specialists



Germany



Japan



USA



India



China



Korea

- **Local Service**
- **Reliable Technical Support**
- **Experienced Field Application Engineers**



Renowned Customers

Customer satisfaction is regarded as the highest priority for faytech.

faytech is entrusted by customers for its expertise in the niche and superior quality.



Factories & Production

Factories & Production



Shenzhen, China

Production Plant

faytech Tech. Co., Ltd. (APAC HQ)

Purpose

Optical bonding, electronics assembly, R&D, Sales and project business

Size

4,450 m²

Established

2009

Machine / Tool list

Production Line

Electronic workspace

~120 m² ISO 5 (class 100) cleanroom

~880 m² ISO 6 (class 1,000) cleanroom

~500 m² ISO 7 (class 10,000) cleanroom

Production Capacity (monthly):

20k+ optical bonding & touch panels



Suining, China

Production Plant

Sichuan faytech Tech Co.

Purpose

Optical bonding, electronics assembly and manufacturing of faytech devices

Size

12,000 m² (2x 6000 m²)

Established

2018

Machine / Tool list

Production line,

EASY Shopper assembly

Electronic workspace

~130 m² ISO 6 (class 1,000) cleanroom

~3400 m² ISO 7 (class 10,000) cleanroom

Production Capacity (monthly):

10k+ touchscreen devices



Suining, China

Production Plant

Zentner (Sichuan) Technology Co.

Purpose

Metal production and case manufacturing

Size

6000 m²

Established

2018

Machine / Tool list

Laser cutters, Bending machines

Welding area, Powder coating

CNC machine, Pipe cutting machine

Production Capacity (monthly):

40k+ sets of cases

Factories & Production



Shenzhen, China

Production Plant
faytech Tech. Co., Ltd. (APAC HQ)



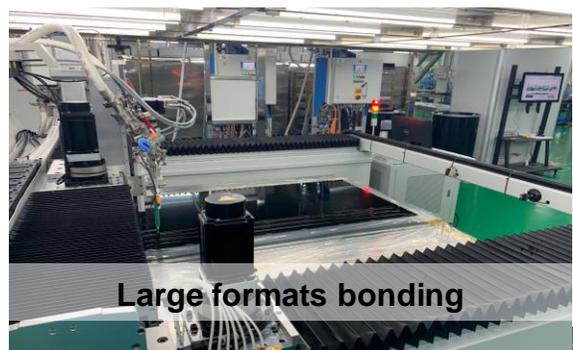
Suining, China

Production Plant
Sichuan faytech Tech Co.



Suining, China

Production Plant
Zentner (Sichuan) Technology Co.



Large formats bonding



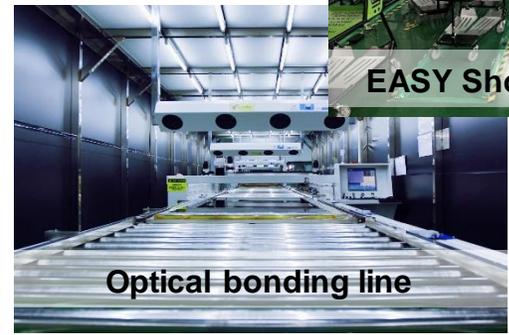
Working space



EASY Shopper production



Dispensers



Optical bonding line



Laser cutters



Bending machines



Welding area



Powder coating



Pipe cutting machines



CNC machine

Your Touch Device Specialist

Thank you!

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