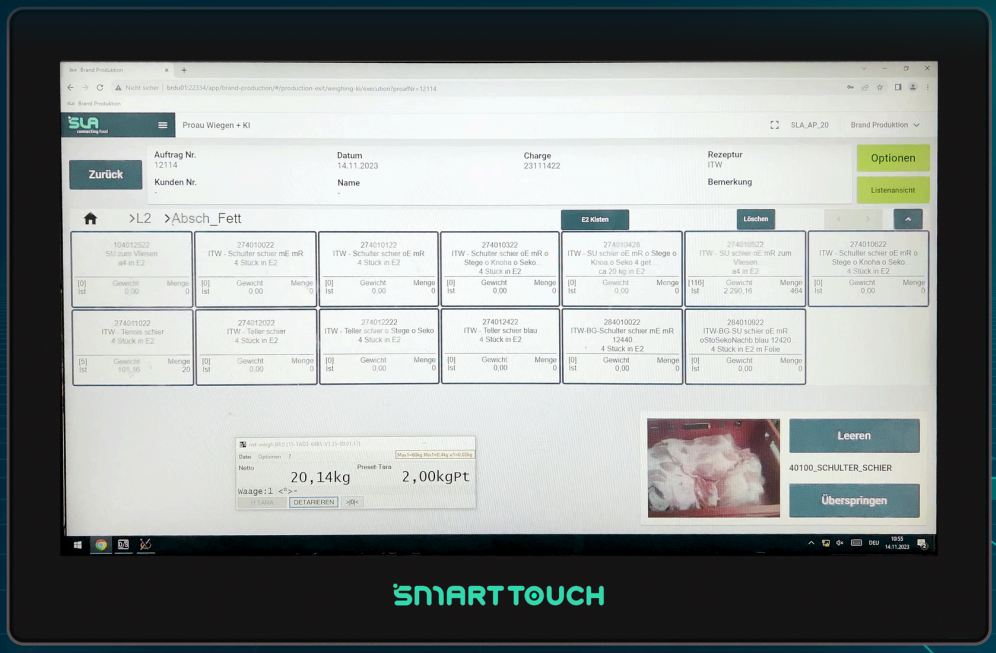
WHITE PAPER · THE INDUSTRIAL PC BUILT FOR THE FOOD INDUSTRY

SMARTTOUCH

SLA connecting food



Harsh production and logistics environments. High-pressure and steam cleaning. Smarttouch can take it.

Why industrial PCs so often fail in production and logistics – and how stainless steel, safety glass, IP69K and a touchscreen that works with any glove fix that.

IP69K
TESTED

Hygienic Design
STAINLESS STEEL 1.4404

–20/+60 °C
OPERATING RANGE

IPA
CERTIFIED · FRAUNHOFER INSTITUTE

01 The shop floor challenge
02 Construction & hygienic design
03 Safety glass up close
04 Tested in the real world
05 Operation, status & connectivity
06 Mounting & specs

SLA Software Logistik Artland GmbH · Friedrichstrasse 30 · 49610 Quakenbrück · Germany · www.sla.de · Edition 11/2026

AT A GLANCE

Never start a shift without a screen again.

Liquids of every kind, grease, and at the end of every shift a blast from the steam cleaner: in production and logistics, everything has to be tough – including the terminal or industrial PC your team books on. Many devices simply don't last in these conditions, and one morning **the line is left without a screen.**

That's exactly where **Smarttouch** comes in: an industrial PC built from **stainless steel, in hygienic design, with safety glass, IP69K-tested** and ready to run from **–20 to +60 °C.** Hose it down with a steam cleaner, operate it with latex, rubber or chain-mail gloves.

IP69K
& HYGIENIC DESIGN
tested – handles high-pressure and steam cleaning, chemicals and more

–20/+60 °C
from cold storage to the production floor

Multitouch
Easy to use with latex, rubber or chain-mail gloves – even when wet

01 · THE CHALLENGE

What an industrial PC has to survive on the shop floor

WHAT THE SHOP FLOOR DEMANDS	HOW SMARTTOUCH DELIVERS
Liquids, grease, steam cleaners Tough conditions all day, then high-pressure, steam and chemical cleaning.	**IP69K-tested, fully sealed** Handles high-pressure, steam and chemical cleaning. The entire device, including all connectors, is IP69K.
Hygiene & audits Gaps, joints and ventilation openings trap dirt and germs.	**Hygienic design, fanless** Gap-free stainless steel housing, confirmed by Fraunhofer IPA. No fan, no air intake, no dirt traps.
Broken glass = contamination risk Glass fragments must never end up in the product.	**Double armored glass + shatter protection** 6 mm safety glass, IK08-tested. No fragments escape.
Gloves & wet conditions Latex, rubber or chain-mail gloves, water on the screen.	**Touch that works in any condition** 2-finger multitouch that works wet and with gloves – feels just like a tablet.
From cold to warm From cold storage to the warmer production floor.	**–20 to +60 °C in operation** Adjustable 850 cd/m² display – clearly readable even in bright light.

02 · CONSTRUCTION & HYGIENIC DESIGN

Stainless steel. No gaps. No fan.

The Smarttouch housing is made from **stainless steel 1.4404 (V4A, AISI 316L)** – a molybdenum alloy prized in the food industry for its outstanding resistance to cleaning agents and disinfectants.

The design is **gap-free**: no joints where product residue or cleaning water can collect. And because Smarttouch is **fanless**, it needs no vents – the housing stays fully sealed.

Fraunhofer IPA has tested the hygienic design and confirmed Smarttouch as a **"Tested Device"** (Report No. SL 2405-1522).

1.4404
STAINLESS STEEL V4A (AISI 316L)
gap-free · fanless · Made in Germany



Gap-free edges – water just runs off

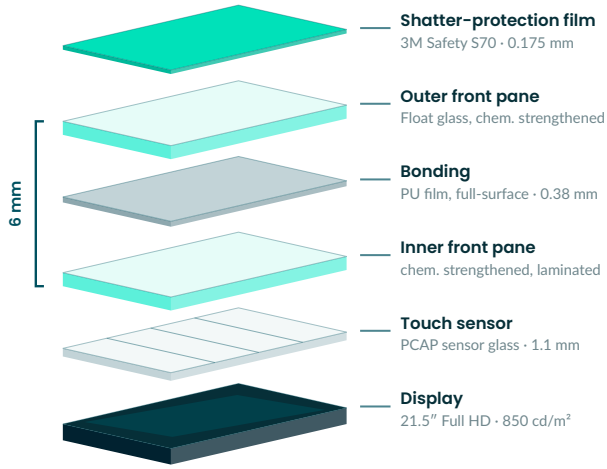


Unbreakable. Protected down to the last detail.

03 · SAFETY GLASS UP CLOSE

Two panes. One film. Zero splinters in production.

The front panel consists of two individually chemically strengthened glass panes – **double 3 mm armored glass, 6 mm in total.** They are joined in a special bonding process and laminated to the PCAP touch sensor. The outer pane also carries a **shatter-protection film**: if the glass ever breaks, the fragments stick to the film and never reach production.



Schematic front-panel structure (not to scale). Double armored glass: 6 mm total.

Glass structure & test results

Shatter-protection film	3M Safety S70, 0.175 mm, on the outermost pane, EN 12600
Outer front pane	Float glass, chemically strengthened
Inner front pane	Float glass, chemically strengthened, laminated (DIN EN 12543)
Double armored glass	6 mm in total, joined in a bonding process
Bonding	full-surface bonded with PU film (0.38 mm)
Touch sensor	PCAP sensor glass, 1.1 mm
Impact resistance	IK08: 500 g ball from 1.3 m – no damage to glass or housing

04 · TESTED IN THE REAL WORLD

Full blast, hard knocks – and it keeps running.

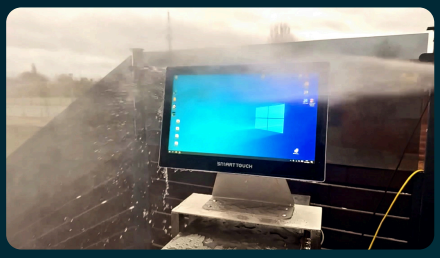
In the water test, Smarttouch takes the full force of a high-pressure jet – front and housing. It keeps running and stays fully operable, and the touchscreen works even on wet glass. It handles impacts too: in the IK08 ball-drop test, glass and housing come through undamaged.







Tested with a high-pressure cleaner



High-pressure jet straight at Smarttouch – and it keeps running



Back and mount in the full jet, too

IP69K

WATERPROOF & DUSTPROOF

IP69K-tested: sealed against dust and against high-pressure and steam cleaning. All connectors are IP69K-rated too.

IK08

BALL-DROP TEST PASSED

A 500 g ball dropped from 1.3 m left no damage to the glass or the housing.

Fraunhofer IPA TESTED DEVICE

HYGIENIC DESIGN CONFIRMED

Fraunhofer IPA “Tested Device”, Report No. SL 2405-1522, valid until July 25, 2029.

ALSO ON BOARD

- CE MARKING
- EMC MARKING
- MADE IN GERMANY
- DESIGNED AND BUILT BY SLA

05 · OPERATION, STATUS & CONNECTIVITY

Use it like a tablet – with gloves on.

The **PCAP touchscreen** (projected capacitive) with 2-finger multitouch is fast and precise – even on wet glass and with **latex, rubber or chain-mail gloves.** No need for your team to take off their protective gear.

The **21.5″ Full HD display** with 16.7 million colors and **850 cd/m²** (adjustable, measured through touch and glass) stays clearly readable even in bright light.

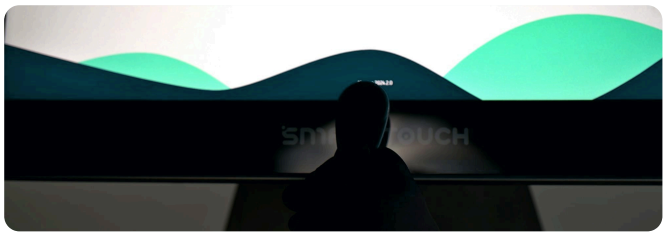
Under the hood: an **Intel® processor** with **8 GB DDR3L** and a **64 GB M.2 SSD** – in a fanless design with no moving parts and no air intake. **Remote support** lets you manage devices from anywhere.

Smarttouch connects via **Wi-Fi, Bluetooth** and **Ethernet** (RJ45); **USB ports** and a **freely configurable port** are available for peripherals.



Illuminated logo – status at a glance

The front lettering is backlit and can glow in any RGB color – so operating states, such as an active network connection, are visible from across the room. The bright, dimmable LED comes as standard.



RFID/NFC built in – log in with a chip

An RFID/NFC reader sits behind the logo as standard and is ready to go. Users can log in with a chip whenever they like: identification is automatic and the right applications launch instantly.

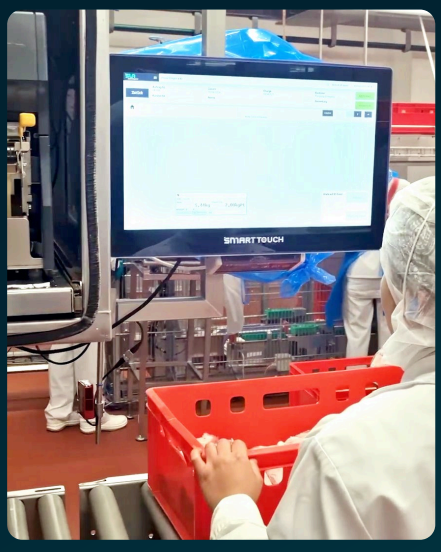
IN PRACTICE

Smarttouch on the shop floor



Meat processing

Gloved operation right at the workstation



On the line

Faster, smarter, smoother production



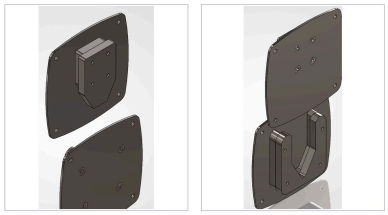
Warehouse & logistics

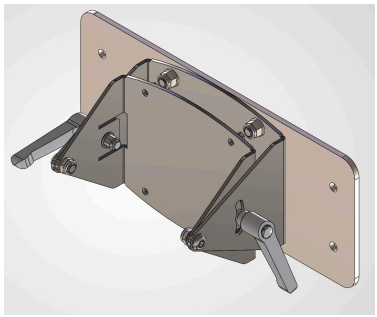
Live data right in the warehouse

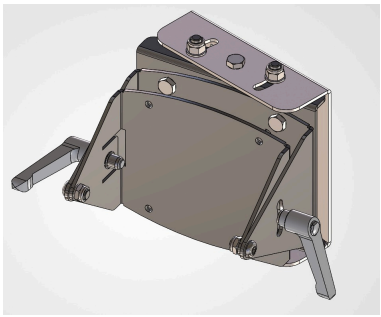
06 · FLEXIBLE MOUNTING

Flexible, fast mounting.

Smarttouch mounts the way you need it: on a **VESA 100 × 100 mount** or with our **SLA mounts.** Matching **quick-release connectors for cables** – such as power and network – are available too. And if needed, we'll build a custom mount to fit your installation.







Quick-release coupling
– device side (plate with bolts) and mounting side (plate with receiver)

Tilt adjustment
incl. wall plate (standard version, included on request)

Tilt + swivel
– also rotates horizontally

Mounting options

VESA 100 × 100	Standard mount for off-the-shelf VESA arms
SLA mount	SLA's own mounts, made for Smarttouch
Quick-release connectors	For device and cables – click in, click out
With tilt adjustment	Tilts, incl. wall plate (included as standard on request)
Tilt + swivel	Also rotates horizontally
Cable routing	Cable entry from the rear or from below at the arm, all connectors IP69K
Custom	Mounts built to your specs for your installation

More variants and custom builds on request.

"Designed and engineered in-house from concept to series production – backed by 30 years of experience – and made in Germany."

TECHNICAL DATA

Smarttouch 21.5″ at a glance

Display	21.5″ Full HD (1920 × 1080), 16.7 million colors
Brightness	850 cd/m², adjustable (measured through touch and glass)
Touch	PCAP, 2-finger multitouch, operable with gloves
Processor	Intel® processor
Memory	8 GB DDR3L 1600 MHz
Storage	64 GB M.2 SSD
Interfaces	USB, freely configurable port, Ethernet RJ45, wireless: Wi-Fi, Bluetooth, RFID/NFC
Protection rating	IP69K-tested, Fraunhofer IPA “Tested Device”
Housing	Stainless steel 1.4404, gap-free, 6 mm safety glass
Temperature	Operation –20 to +60 °C
Dimensions / weight	536.1 × 347.6 × 67 mm (without VESA), 13 kg (14 kg incl. VESA)
Power	230 V, typ. 65 W, VESA 100 × 100, fanless
Markings	CE, EMC · Made in Germany

Designed and built by SLA · Specifications subject to change.

NEXT STEP

See Smarttouch in action.

Let’s talk: we’ll walk you through Smarttouch in a short call or put together a no-obligation quote for your application.

VIDEO & DETAILS

www.sla.de/produkt-smarttouch →

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