

we invent solutions

we develop customized solutions from idea to production and beyond.

Project details: Projective, capacitive touchscreen input device with Android user interface

Industries

- Facility Management, Mechanical Engineering, Medical Technology

Technology fields

- Bus Systems and Radio, Intuitive Input Devices, Software Development, CAE

Project requirements

- The aim of the project was to develop a modern user interface with multi-touch (projective capacitive), LED backlit logo, color-controlled backlit capacitive buttons and various multimedia functionalities. As an operating system the easy to use and freely available *Android* was chosen, which was customized subsequently.

Facts / Highlights

- Multi-Touch and conventional mouse control possible
- Customized internal and external interfaces
- Applicable for measurement, control and regulation tasks
- ARM Cortex processor architecture without fans and large heat sinks
- Android App Software Development
- Fieldbus connection possible
- Wipeable on the whole screen
- Hygienic and robust

Services of KNESTEL

- Hardware: complete hardware design from the requirements specification to the finished board, serial introduction, product maintenance
- Software: custom Android-based operating system, software development for automatization and the display, app development

Possible applications

- Android and Linux based input devices
- Machine and device control with different touchscreen technologies (projective, capacitive, resistive)
- Customized hardware and software development of various input devices, followed by OEM production and product maintenance

