



GLASSCAPE®

INDUSTRY-PROVEN

RAFI has been a leader in human-machine communication for over a century. From initial idea to finished product, we support our customers with high-quality components and operating panels. For us, quality and reliability are always in focus. That's why we manufacture the touch sensors for our touchscreens entirely in-house in Germany. **GLASSCAPE** by RAFI sets benchmarks in capacitive touch technologies.

GLASSCAPE is characterized by long-term availability and reliability of supply. We offer an impressive portfolio of robust and flexible solutions: **TOUCHKEYS**, **TOUCHPADS**, **FLEXSCAPE**, **METALSCAPE** and **TWIN TOUCH** make **RAFI** your ideal partner for innovative touch systems.

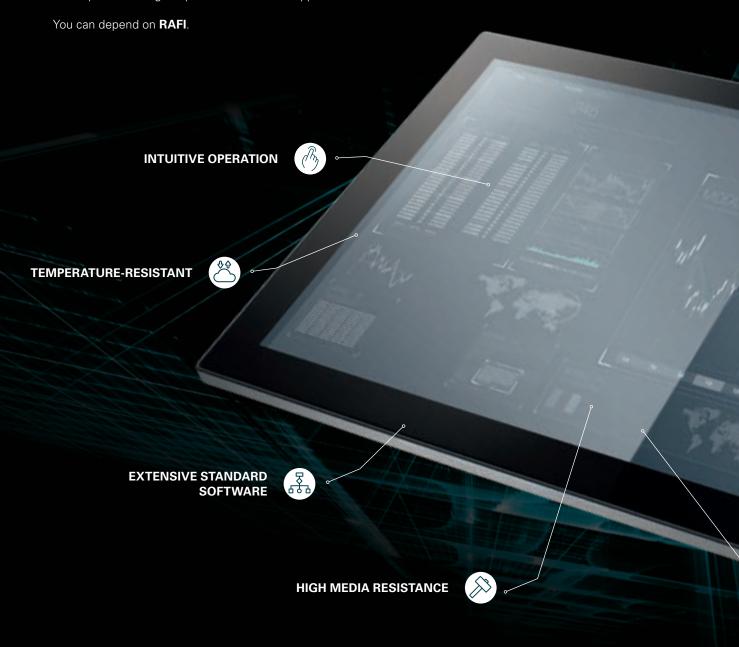




YOUR IDEA. OUR TECHNOLOGY.

GLASSCAPE combines display and control in an intuitive way. Haptic, visual and acoustic feedback ensure reliable operation, even under adverse conditions. The sealed glass surface prevents any penetration of dirt, liquids and other foreign matter. **GLASSCAPE** is fully equipped for industrial use.

GLASSCAPE comes into its own wherever humans communicate with machines. We support you at every step, from the idea to the finished product, and manage the entire process for you – from development through to production and final approval.







HIGH DEGREE OF IN-HOUSE PRODUCTION

- Glass sensors, components and operating elements made by RAFI
- Supply reliability through direct availability
- Long-term availability of components
- Development, production, assembly, software, testing, packaging, logistics and aftersales – all from one source



DESIGN OPTIONS

- Customer-specific designs
- Customized system integration
- Integration of RAFI components (control components, emergency stop devices) possible
- Screen sizes up to 24"
- Surfaces can be sanded, etched, cut out, bent, polished, matted or inscribed
- Illumination and disappearance effects for the operating elements



INDUSTRY-READY

- ESD and EMC-resistant
- Able to withstand liquids
- Meets strict hygiene standards thanks to gapless potting
- Extended temperature range from -40°C to +85°C
- Easy cleaning during ongoing operation
- Multi-touch
- Automatic palm recognition

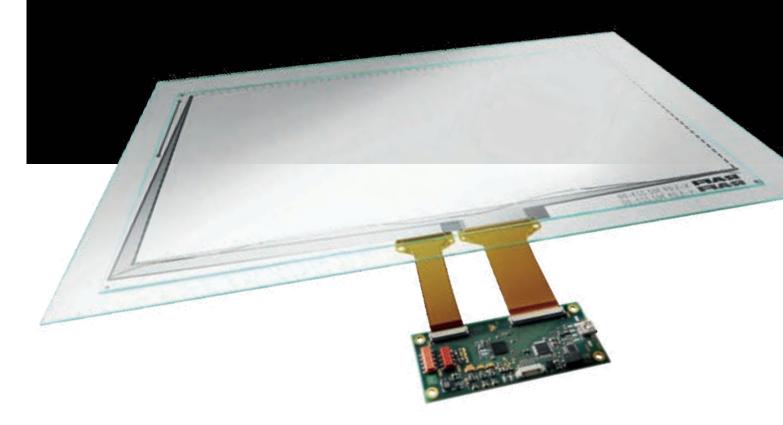


SENSORS MADE BY RAFI

CONTROL WITH HIGH SENSITIVITY

The sensors are the heart of our **GLASSCAPE** touchscreens. Depending on customer requirements, either glass sensors or film sensors are available. Our glass sensors are manufactured 100% in-house by **RAFI**. This means we have no procurement problems or long delivery times – which gives us the flexibility to meet your requirements. Another advantage for you is the long-term availability of **RAFI** glass sensors.

For analysis of our **GLASSCAPE** touchscreens, we use standard electronics based on the maXTouch technology developed by our partner Microchip – a very stable and highly parameterizable system.



GLASS SENSORS MADE BY RAFI

Thanks to in-house production, RAFI can guarantee supply and ensure continuous technical development.

FILM SENSORS

Depending on the application, we use film sensors to ensure small system diagonals. Due to their thickness and weight, these sensors are ideal for use in flat or curved applications.

- Standard sizes up to 24" available
- Long-term availability
- Temperature range from -40°C to +85°C
- Custom sizes possible
- Extremely rugged design (laminated glass system)
- Temperature range from -20°C to +65°C
- Customer-specific sensor designs
- Suitable for high quantities
- Custom contours can be easily realized







TOUCHPAD

Our customized TOUCHPADS are developed and produced for industrial use. The robust user interface is made from foil or glass and houses a capacitive sensor in your required format.

- Individual illumination night design
- EMC, ESD and media-resistant
- Glove operation

TOUCHKEYS

The TOUCHKEYS – button, slider and wheel – are located behind a protective glass panel. Even after millions of actuations, our GLASSCAPE sensors continue to work faultlessly. Neither mechanical systems nor resistive touch technology can even come close to these results.

- User guidance via light signals
- Visual and acoustic feedback
- Disappearance effect of inactive key switches
- EMC, ESD and media-resistant
- Illuminated sensor fields





TWIN TOUCH

FORCE INSIDE – GLASSCAPE WITH FORCE DETECTION

TWIN TOUCH evaluates touch as well as the pressure applied to the panel. The force detection prevents false actuation due to external influences, increases the operating safety and allows the implementation of additional input levels. The switching threshold at which the applied pressure triggers an input can be configured via the software. This ensures that moisture, dirt and unwanted contact do not cause false actuations. So **TWIN TOUCH** is ideal for industrial use.



POSITION SENSING



CERTIFIED QUALITY



REDUNDANT
DATA ENTRY SYSTEM











PLEASCAPE UNIT

FLEXSCAPE WHEEL



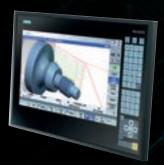
The FLEXSCAPE ONE pushbutton is activated by touch. During switching, the button must overcome a pressure point. The haptic feedback thus allows safe blind operation.

FLEXSCAPE WHEEL

The FLEXSCAPE WHEEL finger guidance offers a low-cost alternative to milled contours on the glass surface. The perceptible contours ensure guided and safe blind operation.



GLASSCAPE meets the differing requirements of diverse industries when it comes to control systems. Which is why leading companies choose to rely on **RAFI**'s expertise.



ELECTRICAL ENGINEERING HMI FOR CNC MILLING MACHINES



FOOD PRODUCTION MACHINESHMI AND CONTROL FOR COFFEE MACHINES

MEDICAL ENGINEERING HMI FOR VENTILATORS





