



Our engineers will review your application requirements and recommend innovative solutions. Years of experience in designing custom medical control panels and keyboards allow us to provide quick turnaround on prototypes and production. Not only have we supplied fully integrated custom designs to our customers, in most cases we've supplied the design to integrate the components into the final product. This includes all structural sub level components our mounting as well as the finished dress plates for aesthetic purposes. Thanks to our cost efficient tooling options, full US engineering and manufacturing capabilities and Asian engineering support and manufacturing facilities, we've yet to see a design challenge we couldn't solve competitively and competently.

Faced with the challenges found in low light conditions, TG3 engineers combined a traditional QWERTY keyboard with an ultra-sound scanner control panel to enable clinical users to more easily conduct ultra-sound procedures in ambient light. Unique features of this design include:

- Custom USB interface for all integrated devices
- Backlit keytops for low light environments
- Integration of multiple OLED displays as a single USB device

Needing to save space, a customer asked us to integrate an ultra-sound scanner control panel to the scanner's laptop PC. TG3 provided an industrial design to achieve the required ultra small profile and superior feel while tooling the plastic components off shore to minimize budget impacts. Custom features include:

- Custom USB interface for all integrated devices
- Backlight legends with status indicators for maximum visibility in a hospital environment

Low cost and rugged aren't necessarily contradictory terms when it comes to TG3 products. Designed for use in environments that were causing regular keyboard failure, our EL (Electro Luminescent) keyboard addresses size, environment and budget concerns with the following features:

- Backlit keys
- Ultra low profile

- Compact footprint
- Integrated rubber seal
- Low cost

Data entry in medical environments poses a special set of challenges for both operators and the keyboards they use. TG3 engineers understand the unforgiving nature of health care environment on keyboards and the demanding conditions under which they are used. To address those unique requirements, TG3 has developed splash-proof keyboard technologies that can be integrated into custom solutions to meet a wide range of needs.

TG3 has done it all when it comes to healthcare data entry. We work closely with our customers to take their design needs from concept to production. Here are just a few of the items we have integrated into our custom designs.

- Custom plastics, metal, rubber
- Custom or standard protocols
- Custom firmware/software
- Splash-proof seals
- Backlighting for low light environments
- Backlighting control
- Full/limited travel, low profile, and flat panel/metal dome switches
- Optical Rotary Encoders Linear slide-pots
- Integrated pointing devices for cursor control including touch pads, track balls and more
- LED and LCD Displays USB interface for all integrated devices
- Custom molded keys and bezels

Let our award winning customer service and engineering teams assist you in your next design or standard product.