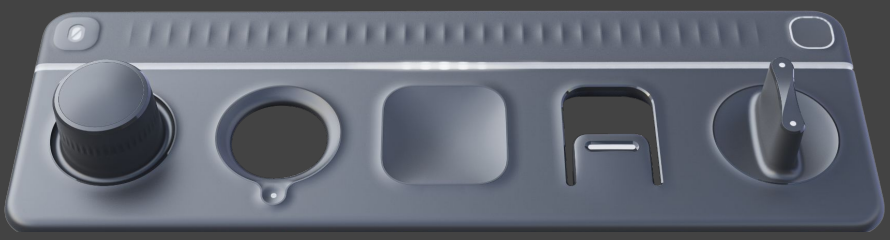
Next-Gen Software Enabled Surfaces

TG0 turns everyday polymers into touch and pressure sensitive surfaces, to create innovative, inspirational and intuitive control.

Applicable to all consumer electronics product categories, including but not limited to, gaming, robotics, audio, computer accessories, medical, e-fitness, toy. Our patented sensor technology helps you envision, differentiate and enhance products whilst delivering new features.



Explore the TG0 demonstration library

Optimised user experiences without added complexity.

Press Button:	Touch and pressure-sensitive button with integrated LED.
Multi-slide:	Textured 10-finger multi-touch sliding bar with LED illumination.
Smart Key:	Push button with up/down/left/right swipe and gesture navigation.
Precision Dial:	Seamless rotary dial with rotate/tilt motion controls.
Spin Donut:	Ergonomic radial slider centred around a through-hole.
Soft Touchpad:	Deformable trackpad with localised 3 level pressure detection.
Push/Pull Tab:	Seamless 3-level push and pull control.
Twist Control:	3D high precision analogue twist/ tilt deformation control.

Get to market faster

Prototype faster and streamline manufacturing.

Test new interactions and behaviours with ease.
Fast product validation with rapid prototyping.
Decreased bill of materials, lower production costs with moulded sensors.
Fewer components, faster assembly, more sustainable.

Patented platform technology

Software-enabled sensing surfaces for enhanced user interaction

Capacitive touch sensing with one electrical connection:	Patent **US10824281**
Deformation pressure sensing using over-moulded plastics:	Patent **US11269471B2**
Independent finger tracking for gaming and driving:	Patent **US11379037B2**
Pressure mapping with advanced signal processing algorithms:	Patent **EP3908817A1**

TG0

Specification

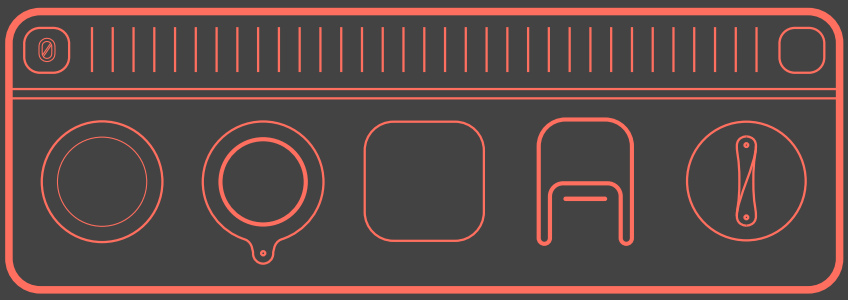
TG0 potential	The demonstration library brings together a collection of controls that can be adapted and modified to requirements, physically and through custom controls, algorithms, gestures and behaviours.	
TG0 technology	Unique capacitive sensing, deformation sensing and pressure mapping technology.	
Demonstrator	Size:	390 x 130 x 15mm (45mm at controllers)
	Aspect materials:	TPU, PC, ABS
	Sensing materials:	Silicone, ABS (conductive)
	Connectors:	USB C Power/ Data (cable included)
	User Interface:	Stand alone LED indication and PC
Software	Interface:	Windows PC PyQT Application: (Windows PC).
	Protocol:	Static and gestural Data accessible via ZMQ
	API:	Raw data and visual representation of position, pressure and gestures.
CMF opportunities	Most mass manufacturable polymers and elastomers can be directly used as cosmetic or 'aspect' material. Non-conductive materials including textiles are fully compatible. Conductive materials can be accommodated with design constraints. Contact us to discuss further. Haptic feedback integration.	

Contact

Sam Pilkington

Head of Strategic Partnerships

sam@tg0.co.uk



TG0