



# TENZOSENSOR LLC

## FOUNDED

in **2004**

## ESSENCE OF THE DEVELOPMENT

Polymorphous multifunctional switching device.

## PRODUCT APPLICATION

Thanks to its reprogrammability, the switching device can replace existing buttons and tumbler switches in operating systems (from household appliances to aircraft) and support the creation of a fundamentally-new concept for information-input systems.

## DEVELOPMENT ROLL-OUT

**2013**

## BIOGRAPHICAL DATA

**GENERAL DIRECTOR:**  
Vladimir Stepanovich Nikitin,  
PhD in Technical Sciences

## Unique product features

**1**

The development makes it possible to create new ergonomically-designed gaming joysticks and consoles, an alternative vehicle steering system (similar development-concepts are currently being pursued by auto industry leaders Mercedes and Honda), and, with respect to modern Smart-TVs, a simple and highly-intuitive (i.e. user-friendly) unit with a limited number of elements to replace bulky remote controls. One polymorphous switching device, featuring the simplest of constructions and a weight of just 0.7 g, is capable of replacing an entire group of buttons.



## Advantages of the development

**1**

Multifunctionality. This single polymorphous switching device can replace existing tumbler switches, circuit breakers, single-, dual- and multi-position switching devices, and one- and two-way joysticks – all while lowering the overall weight of the operating system. The device can be reprogrammed in real time.

**2**

The switching devices do not contain metal contacts, significantly reducing their cost and weight. The unique feature of the product lies in its special tensoresistive coating – it “senses” the directional movement of the joystick, as exerted by the person, and transmits the corresponding signal.