

## Startup Xenoma Announces Camera-Free, Gesture-Tracking, E-Skin Smart Apparel



Source: Xenoma.com

- 1) Smart apparel company Xenoma is planning to launch a preconsumer version of its e-skin, sensor-embedded smart shirt on Kickstarter in August at a price of \$479.
- 2) E-skin apparel uses stretchable sensors and electronics that detect the user's movement while maintaining the comfort, durability and machine washability of a regular shirt.
- 3) E-skin features a next-generation wearable interface that enables camera-free motion capture and tracking in a garment that is as comfortable as a regular shirt. Applications include gaming, fitness and healthcare.
- 4) The shirt contains 14 strain sensors, plus a hub with a six-axis accelerometer and gyroscope. The hub transmits information to smartphones, tablets and PCs via Bluetooth.
- 5) The shirt provides the same level of functionality as the one in Xenoma's Developer's Kit and is being offered to the first 100 backers, with the goal of raising \$50,000 through the Kickstarter campaign.

### Details from the Announcement

Smart apparel company Xenoma is planning to launch a preconsumer version of its e-skin sensor shirt on Kickstarter in August. The garment will provide the same level of functionality as the one in the company's Developer's Kit, but at a much lower price point. Xenoma will provide the preconsumer version of the shirt to the first 100 purchasers for \$479, and the company has set a target of raising \$50,000 through the Kickstarter campaign.

E-skin apparel uses stretchable sensors and electronics that detect the user's movement while maintaining the comfort, durability and machine washability of a regular shirt. The clothing also provides intuitive and immersive input for interacting with virtual reality content and games, as well as the means for analyzing exercise and sports performance.

Xenoma’s e-skin is a next-generation wearable interface that enables camera-free motion capture and tracking in apparel, and it is as comfortable as a regular garment. Applications include:

- **Gaming**—Using the apparel as an input controller for gaming and virtual reality experiences.
- **Fitness**—Using the apparel as a personal coach for monitoring and improving form.
- **Healthcare**—Using the apparel to monitor body movement, posture and respiration.

Moreover, Xenoma claims that the apparel is machine washable, highly durable and comfortable.

**Technical Details**

The shirt has 14 strain sensors, as well as a hub with a six-axis accelerometer and gyroscope. The hub transmits information to smartphones, tablets and PCs via Bluetooth.



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The set includes an e-skin shirt, an e-skin hub and a software license for the software development kit, which supports application development and data analysis.

**About Xenoma**

Founded in 2015, Xenoma is a spin-off company from the University of Tokyo that aims to realize human-friendly technologies through commercializing academic and industry research. Xenoma claims to be the first company to develop Printed Circuit Fabric (PCF) using its stretchable electronics technology



FLASH REPORT

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