

Singapore

Three institutions work together to develop the first wearable sensor to measure skin touch

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Three institutions launched HapSense, a device that is still pending patent application. (Photo: Singapore Agency for Science, Technology and Research, Nanyang Technological University, Procter & Gamble)

The Singapore Agency for Science, Technology and Research, together with Nanyang Technological University and US consumer goods giant Procter & Gamble, have developed the first wearable sensor to measure skin touch.

In conjunction with the 10th anniversary of the establishment of P&G's Singapore Innovation Center, the three organizations launched HapSense, a device that is still pending patent application.

A statement jointly issued by the three institutions said that this equipment will help scientists analyze skin care cosmetics about ten times faster, but the cost is much lower than existing technology, and it is more accurate.

The sensor utilizes advanced soft electronics technology and is designed as a signet ring to be worn on the fingertip. The sensor component of the device is connected to a module similar to a smart watch. When the sensor passes over the skin or any surface, the device can intercept real-time data related to friction and pressure to understand the effect of skin care and cosmetic products on the skin.