

# Future Innovation

## New Haptic Experience

Advanced Technology

### Customer Benefits

- Our new technology can simulate 3D geometric features (such as bumps, ridges, edges, protrusions, etc.) on touch screen surfaces. For example:



Turn a dial lock

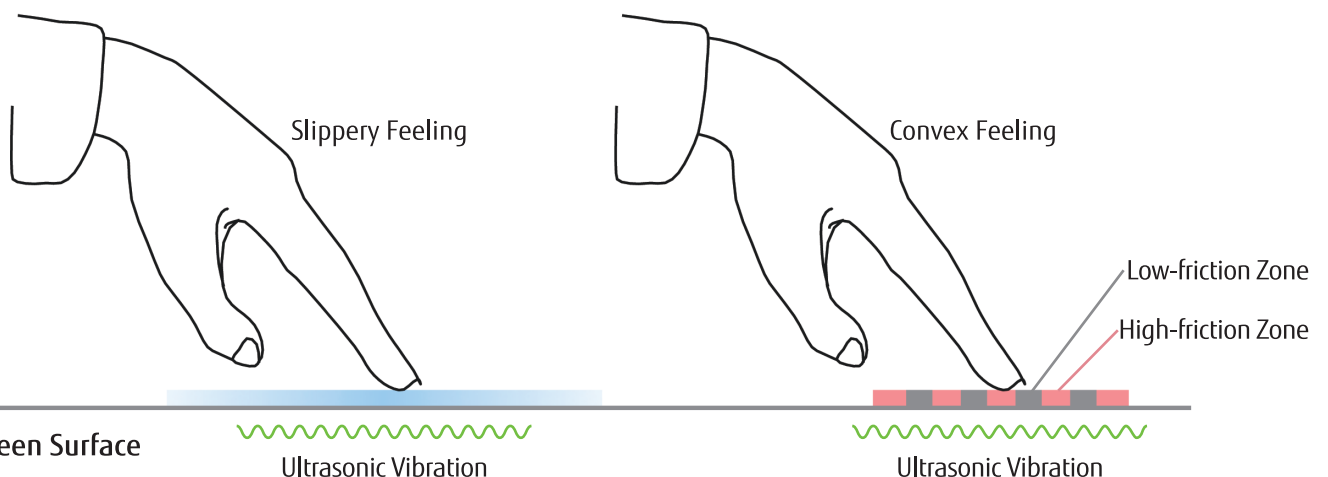


Touch the sand



Play the strings

- We provide a totally new experience in accordance with the principles of the Sticky-band illusion and squeeze film effect via ultrasonic vibration.
- The underlying hypothesis is that when a finger slides on an object minute surface variations are sensed by friction-sensitive mechanoreceptors in the skin. Thereby modulating the friction forces between the fingertip and the touch surface creating an illusion of surface variations.



Touch Screen Surface

Ultrasonic Vibration

Ultrasonic Vibration

This pamphlet is translated based on the Japanese local pamphlet.  
 Some contents inside are reference information for Japan local only. (Cost/Patent, etc)  
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