

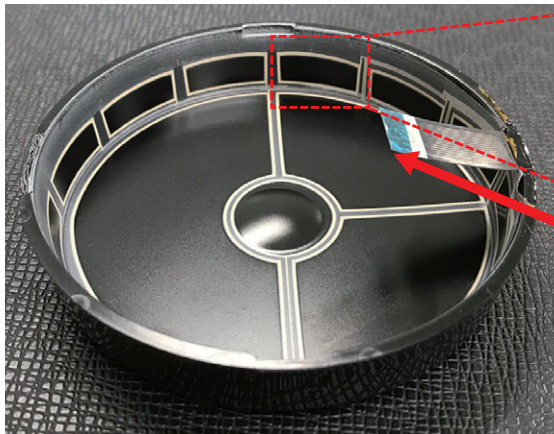


Capacitive Sensor Integrated in 3D Shape Under Development

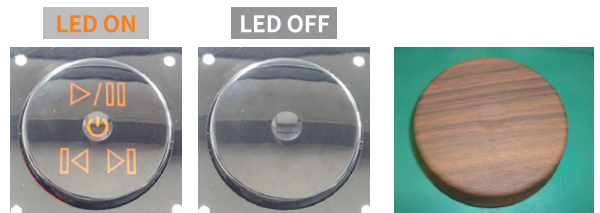
Features

Key Technology : Enabling to **Build Sensors and Wiring on Freeform Surface**

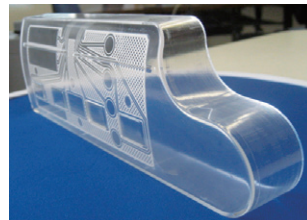
- **Resin Integrated Type of Sensor**
- **Realizing Better Design**
Sensor on side surface, Wire setting
Seamless, Concavo-convex freeform surface
- **Adding Functions**
Touch sliding function along with the design etc
- **Adding Designability**
Blackout illumination, Decollation film



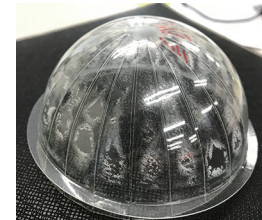
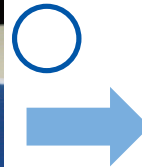
Connecting from tail to connector



Current : Design Limitation with Assembling 2D Sensor

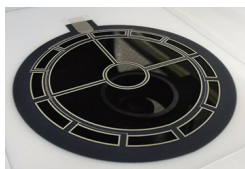


Can conform to narrow curved surfaces



Bubbles and creases

Process



Printing A Sensor



Vacuum Forming



Injection Molding



Finished Part

- **Suitable non-disconnecting materials selection for 3D Shape + Design**



Application Example

- **Touch Operation** : Operating with conforming to the button shape
- **Surface Texture** : Fabric style, leather style etc.
- **Seamless** : Removing parting line of parts by over-molding with combination of polymers and sheets
- **Touch Feedback** : Haptic device mounted on the back of the sensor



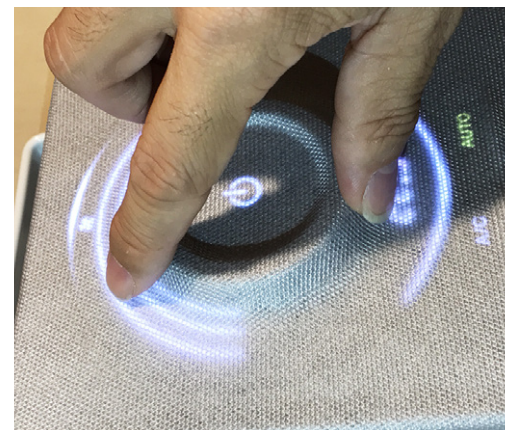
【 SEKISUI Concept Car 】



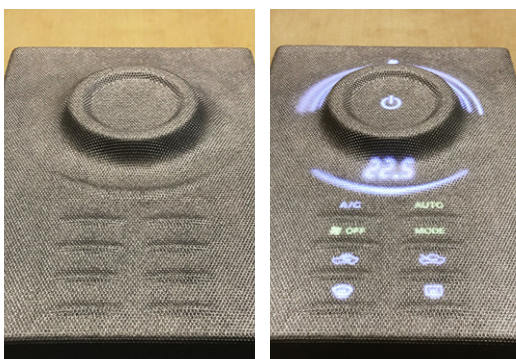
【 Installed Example on the Center Console 】



【 Dial Sensor 】



【 Dial Operation 】



【 Light ON/OFF 】



【 Design Variation Examples 】