

Integration of Decorative Panels and Switches

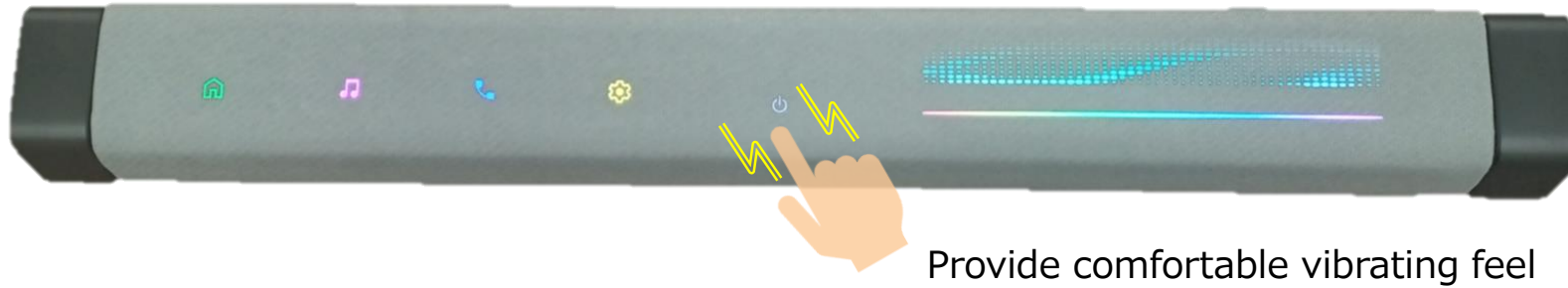
～Transparent decorative panels and vibrational feedback～

加飾パネルとスイッチの融合を実現
～透過加飾パネル&振動によるフィードバック～



Overview

A large transmissive decoration panel with vibrational feedback



Benefits

- Simple and seamless interior design
- Even soft material with cushioning properties can provide comfortable vibrating feel
- Tokai Rika's transmissive decoration technology creates clear transmissive illumination regardless of the color and pattern on a panel

Applications



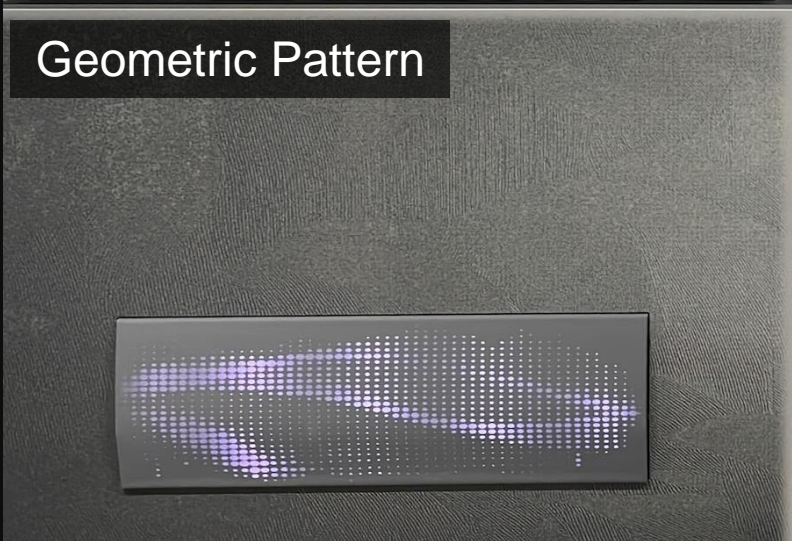
Bamboo Composite



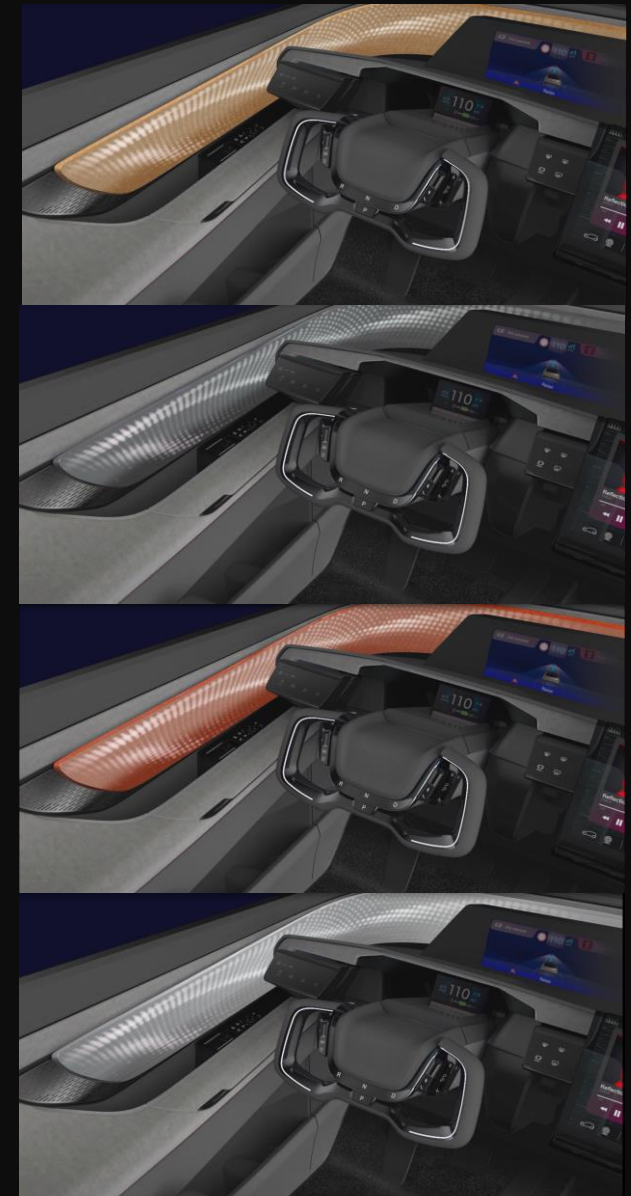
Hairline Style





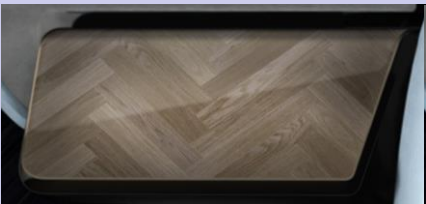

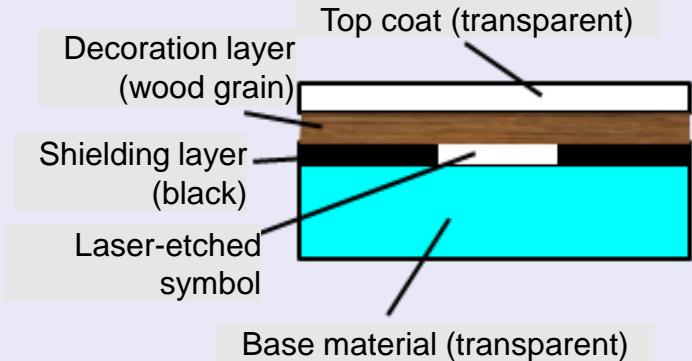
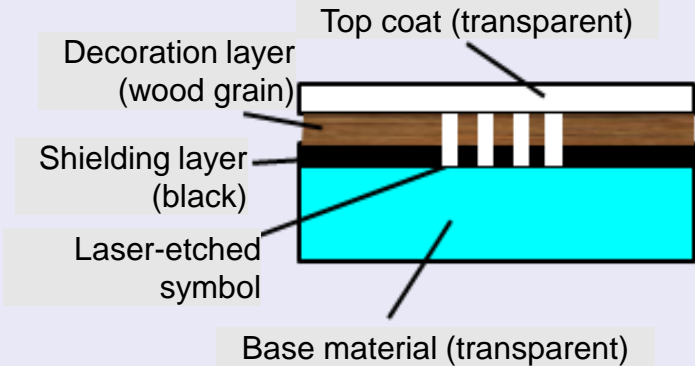
Geometric Pattern



Iro shibo

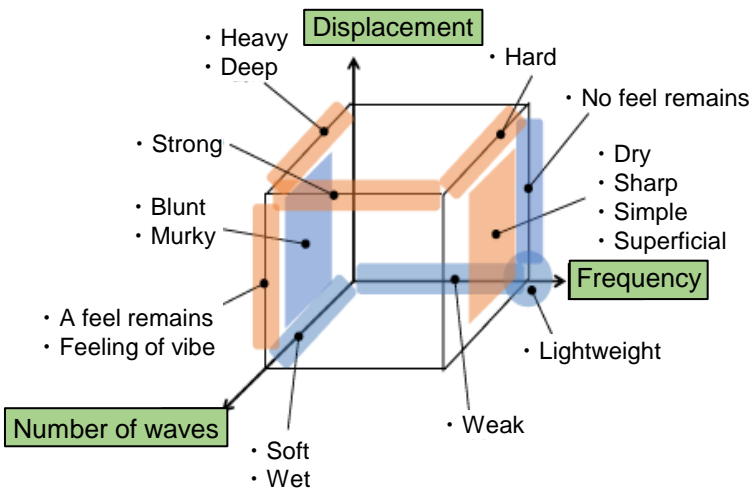


Microporous processing enables transmissive illumination on decorative panel regardless of color and pattern.
Any type of film, such as transfer film, insert molding film, or soft film, can be used because a printed pattern layer is manufactured.

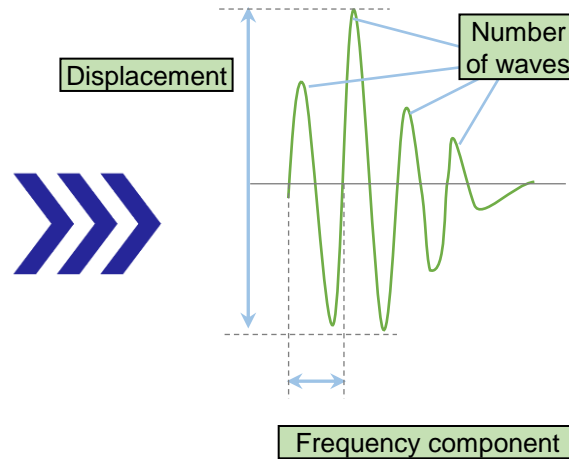
	Existing product (transmissive type)	Developed item (aperture type)
Appearance design	<div></div> <div>Lights off</div> <div></div> <div>Lights on</div>	<div></div> <div>Lights off</div> <div></div> <div>Lights on</div>
Cross-sectional structure	<div></div>	<div></div>
Remarks	The pattern and color of the decorative panel affect the illumination color.	Neither pattern nor color of the decorative panel affect the illumination color.

- Tokai Rika's sensitivity engineering learned through switch development is the basis of the haptic design.
- Optimum actuator design and sensitivity evaluation technology enable the creation of desired sensation on large and small panels.

Sensation



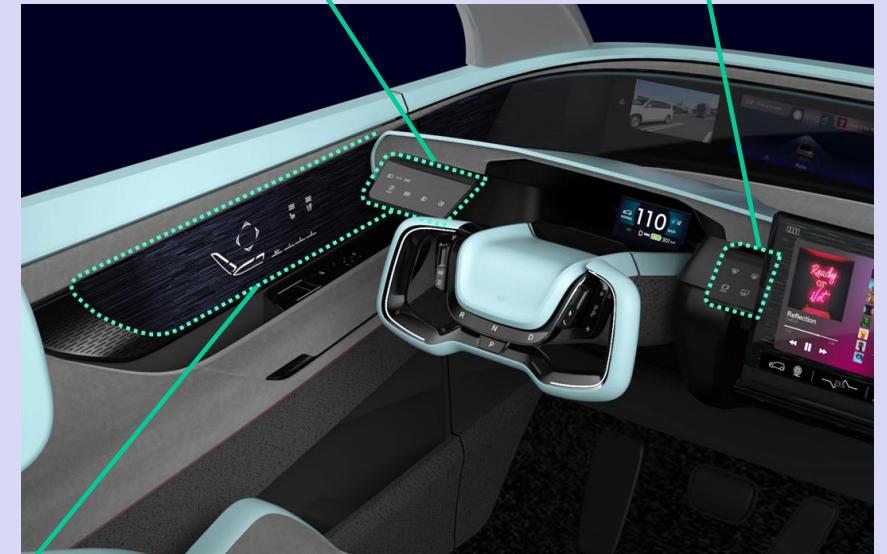
Physical parameters of vibration



Applicable to various HMI products

Light switches

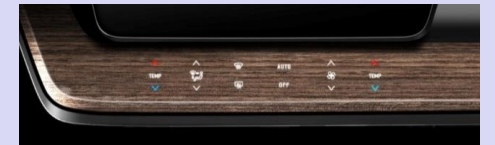
Brake hold switches



Seat switches



Shift-by-wire shifter



Climate control panel