

## NEWS RELEASE

### Switchable light control glass **UMU** selected for the first time for Japan's mass-production cars

TOKYO (February 25, 2020) - NSG Group announced today that **UMU Smart Window®** has been selected for **LEXUS LM**, a luxury chauffeured car to be launched in China and South East Asia during this month. **UMU Smart Window®** is a switchable light control glass that enables the user to change the visibility of glass instantly at the flick of a switch. **LEXUS LM** is the first mass-production car model in Japan to install **UMU Smart Window®** in its interior.

**UMU Smart Window®** is laminated with a special liquid crystal sheet sandwiched between two sheets of glass. Normally, liquid crystal molecules of the sheet are randomly aligned to disperse light to create a "translucent" appearance. When voltage is applied, however, these molecules are aligned into a specific direction to permit light to pass through and the glass becomes "transparent," making it possible for the user to change the visibility of glass instantly at the flick of a switch. Because the interlayer of **UMU Smart Window®** firmly glues together two sheets of glass with strong adhesive, it is resistant to impacts and even if it breaks, there is no danger of glass fragments to scatter.

**UMU Smart Window®** (light control glass) is used for a partition inside **LEXUS LM** to help create an opulent and quiet space for the passenger privacy. NSG Group continues to expand business to fulfill its mission of "changing our surroundings, improving our world".

**NSG Group** (TSE 5202) is one of the world's largest manufacturers of glass and glazing products for the architectural, automotive industry and technical glass sectors. With around 27,000 employees, NSG Group has principal operations worldwide and sales in over 100 countries. <http://www.nsg.com>

#### LEXUS LM



Photo: Lexus International

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**The partition inside LEXUS LM**

**UMU OFF**



**UMU ON**



Photo : Lexus International