



SCHOTT Introduces New Brand Family of Touchscreen Glasses

SCHOTT's new family of "Xensation" products offers solutions for all touchscreen applications / "Addition to the family" planned for the fall

June 13, 2011 (Mainz, Germany) – Whether it be a smartphone, tablet PC, computer monitor, notebook, or navigation system, the desirability of such consumer electronics is greatly enhanced by having a touchscreen interface. There are a number of different touchscreen technologies available, and SCHOTT is the only technical glass manufacturer that can offer a family of touch panel glasses that can meet all the requirements of the touchscreen market. SCHOTT presented the new glass range under the brand name "Xensation", at the world's largest display technology conference, SID Display Week 2011 in Los Angeles, California.

A recent market report by the research group at DIGITIMES highlighted some notable statistics: Approximately forty percent of all current mobile devices have touchscreens, and it is anticipated that with the current double-digit annual growth rate, the adoption of touchscreens will only increase. There are currently four core technologies that allow direct interaction with what is being displayed: The so-called "resistive" touchscreens respond to pressure where two electrically conductive layers are pushed together. "Capacitive" panels have a conductive coating, and use a change in an electric field to locate the point of contact. "Surface Acoustic Wave" or SAW touchscreens use ultrasonic sound waves that pass over the screen to determine touch position, and "optical" panels are based on an infrared light detection system.

Each of these technologies is suitable for a different type of display application, but each calls for glass materials with specific properties. The new SCHOTT "Xensation" family provides a complete range of solutions from a single supplier.

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“We are the only manufacturer that can supply glass types for the whole range of cover and touch applications,” said Prof. Udo Ungeheuer, Chairman of the SCHOTT AG Board. “To support this growing market, SCHOTT has established a Cover & Touch flat glass center of excellence. This brings together 125 years of glass development and production experience, combined with German engineering know-how”

The “Xensation” brand represents a range of high quality flat glass types:

- **“Xensation” Cover 3D** glass is a chemically strengthened, thin lithium aluminosilicate glass for capacitive systems, manufactured using float technology. As a cover glass, it is widely used in the displays of smartphones or tablet PCs, providing a surface that is visually attractive, and extremely scratch and break resistant. The unusually low transition temperature ($T_g = 506$ degrees Celsius) allows the efficient production of sophisticated three-dimensional glass formats.
- **“Xensation” Touch** glass is chemically resistant and withstands environmental damage. This high transparent borosilicate glass is suitable for resistive touch panels, as proven by its use in millions of car navigation systems. It can be supplied in a thickness down to 0.03 millimeters and is considered the world’s thinnest glass of its kind.
- **“Xensation” Look** glass has good transmission characteristics, especially in the infrared, as well as the visible spectrum. This borosilicate glass is therefore well suited for use in optical touchscreens, such as notebooks.
- Finally, the **“Xensation” Sound** clear crown glass has the qualities of high transparency, and surface durability making it ideal for SAW touch panels, especially in large format displays.



SCHOTT expects to see an addition to this family of products in the fall of 2011. The technology group is currently working on a floated aluminosilicate glass for capacitive touch technologies that it will introduce to the market under the name “Xensation” Cover in the months to come. Unlike “Xensation” Cover 3D, this new type of glass can be chemically cured using a standard process and thus offer the displays of smart phones or slate tablet PCs not only an attractive, but also an extremely break resistant and scratch proof surface when used as a cover glass. SCHOTT floats “Xensation” Cover to offer its customers a glass that they can immediately use with their standard processes without having to modify their existing processing process.

In addition to this new glass range, this center of excellence at SCHOTT can provide expertise and technical support across the entire supply chain, from modifying glass formulations to suit different manufacturing processes, to consulting with the various manufacturing partners to achieve optimal process integration, and the development of future products. SCHOTT has rapidly increased its presence in Asia to ensure its close proximity to customers in the cover and touch market.

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Photo ID 110482: “Xensation” is the new brand family for special flat glass from SCHOTT and sets new accents in the cover and touch market by offering a refreshing world of images. Photo: SCHOTT



Photo ID 110480: The chemically hardened lithium aluminosilicate glass "Xensation" Cover 3D is manufactured using the microfloat process and well-suited for use in capacitive touch panels. Photo: SCHOTT

Download link to a ZIP file that contains the photograph in printable quality: <http://www.schott-pictures.net/presskit/110546.pi47-2011-e>

About SCHOTT

SCHOTT is an international technology group with more than 125 years of experience in the areas of specialty glasses and materials and advanced technologies. SCHOTT ranks number one in the world with many of its products. Its core markets are the household appliance, solar power, pharmaceuticals, electronics, optics, transportation and architecture industries. The company is strongly committed to contributing to its customers' success and making SCHOTT an important part of people's lives with high-quality products and intelligent solutions. SCHOTT is committed to managing its business in a sustainable manner and supporting its employees, society and the environment. The SCHOTT Group maintains close proximity to its customers with manufacturing and sales units in all major markets. Its workforce of around 17,500 employees generated worldwide sales of approximately 2.9 billion euros for the 2009/2010 fiscal year. SCHOTT AG, with its headquarters in Mainz (Germany) is owned by the Carl Zeiss Foundation.

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