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December 12, 2024

Japan Display Inc. (JDI) (Tokyo Stock Exchange Prime Market, 6740)
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Announcement Regarding a Manufacturing Partnership to Produce High-Resolution Thermal Imaging Sensors with Obsidian Sensors, Inc.

We are pleased to announce the start of a new partnership with Obsidian Sensors, Inc., a US based company supplying thermal imaging products based on its proprietary microbolometers on glass sensor solution. In recognition of its leadership role in high resolution displays, JDI was selected as the manufacturing partner to source high resolution uncooled microbolometers on glass, targeting SXGA (1280x1024) resolution format sensors with product launch expected in 2026.



Image by Thermal imaging sensor


Image by optical camera

Thermal imaging sensors are devices that visualize images by detecting the differences in relative intensity of longwave infrared energy radiated by objects, instead of detecting scattered or reflected light like typical cameras. Cameras utilizing thermal imaging sensors enable shooting in challenging environments where visible cameras struggle, such as dark places, under strong glare, or in other difficult viewing conditions such as smoke and fog. As a result, demand is growing in many fields including security, industry, vehicle-mounted cameras, and defense industry. In recent years, there has been an increasing demand for high-resolution capabilities.

The partnership will deliver thermal imaging sensors with improved resolution, leveraging the innovative design, manufacturing technology, and intellectual property of Obsidian Sensors, Inc.'s LAMP (Large Area MEMS Platform), along with our own fine processing technology, intellectual property, and production equipment cultivated in the manufacturing of high-resolution TFT (Thin Film Transistor) glass substrates.

(1) We plan to carry out the development and manufacturing at our Ishikawa factory (4.5th generation glass substrate size).

(2) We aim to develop high-resolution glass substrates (SXGA (1280 x 1024), 12μm

pitch) for thermal imaging sensors by 2026.

By applying the innovative design and manufacturing technology of Obsidian Sensors, Inc. along with our state-of-the-art high-resolution TFT glass substrate manufacturing technology to this sensor development, we aim to establish a competitive advantage.

About Obsidian Sensors, Inc.

Obsidian Sensors, Inc. is a manufacturer of thermal imaging camera modules based in San Diego, USA, established in 2017. By integrating TFT configurations on glass substrates and surface microfabrication technology through the LAMP process, they are the only company in the world capable of producing high-resolution thermal imaging sensors at low cost and in large quantities.

Obsidian Sensors, Inc.: https://www.obsidiansensors.com/

Contact: https://www.j-display.com/en/contact.html