

IR Transmitting Glass “FI-02” Adopted for Heimann Sensor’s Wide-Angle Lens

Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan; President: Akira Kishimoto; hereinafter “NEG”) has announced that its IR Transmitting Glass (chalcogenide glass) “FI-02” has been adopted by Heimann Sensor, a global leader in the field of infrared sensors, for a wide-angle lens unit for thermal cameras*.

FI-02’s high refractive index and high infrared transmittance enable the lens unit to achieve a wide $120^{\circ} \times 68^{\circ}$ field of view, surpassing the previous product’s maximum of $92^{\circ} \times 59^{\circ}$, while enabling the capture of high-quality infrared images.



Wide-angle lens unit featuring “FI-02”

* Thermal camera: An imaging device that detects infrared radiation emitted by people or objects and converts it into thermal images.

Infrared sensors are characterized by their ability to detect the locations of people and temperature distributions. They are also expected to be used for people detection and monitoring, where privacy considerations are important, as well as for air-conditioning control. Their use is expanding in fields such as healthcare, equipment monitoring, and security.

■ Features of “FI-02” and Background to Its Adoption

Lenses for infrared sensors must meet various requirements, including infrared transmittance, suitability for mass production, and optical performance that enables a wide field of view.

FI-02 offers high infrared transmittance and a high refractive index, making it suitable for wide-angle lens design. It is also suitable for mass production through press molding. Heimann Sensor evaluated these features and adopted FI-02.

[Features of “FI-02”]

- High infrared transmittance
- High refractive index/low dispersion
- Mass production through press molding
- Unique composition free from hazardous substances such as arsenic and selenium

■ **About Heimann Sensor**

Heimann Sensor GmbH is a leading manufacturer of infrared sensing solutions headquartered in Dresden, Germany. The company develops and supplies infrared sensors and sensor modules to customers worldwide for applications including non-contact temperature measurement, gas detection, human presence detection, and industrial process monitoring. With a strong focus on innovation, quality, and customized solutions, Heimann Sensor serves a broad range of industries such as industrial automation, automotive, medical technology, building automation, and consumer electronics.

www.heimannsensor.com

NEG will continue to leverage the features of FI-02 to meet the diverse requirements of the growing infrared sensing market.

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<Contact regarding products>

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