

February 18, 2015

World's thinnest* infrared absorbing filter developed

Nippon Electric Glass Co., Ltd. (Head office: Otsu, Shiga, Japan, President: Masayuki Arioka) has developed the world's thinnest infrared absorbing filter, of which glass material itself has the ability to absorb infrared rays with high efficiency, and have started providing samples.

An infrared absorbing filter maintains a very high degree of transmission in the visible light range and high absorbing efficiency in the infrared range, and can achieve spectral sensitivity close to that of the human eye. With this filter placed in front of an image sensor, natural colors can be obtained for pictures and images taken; therefore it is widely used for digital cameras, smartphones, and surveillance cameras.

At present, an infrared absorbing filter with a thickness of 0.21 mm is mostly used for smartphones. Our newly developed filter is 0.10 mm thick, about half the thickness of the conventional filter, but maintains the same degree of infrared absorption. It can therefore contribute to making smartphones and other mobile devices thinner and also allow AR (antireflection) or IR (infrared reflection) coating to be applied.

* Surveyed by NEG

- Product size: 76 mm × 76 mm (standard model) Other size may be available.
- Mass production start: around summer 2015 (scheduled)

(Product image)

