

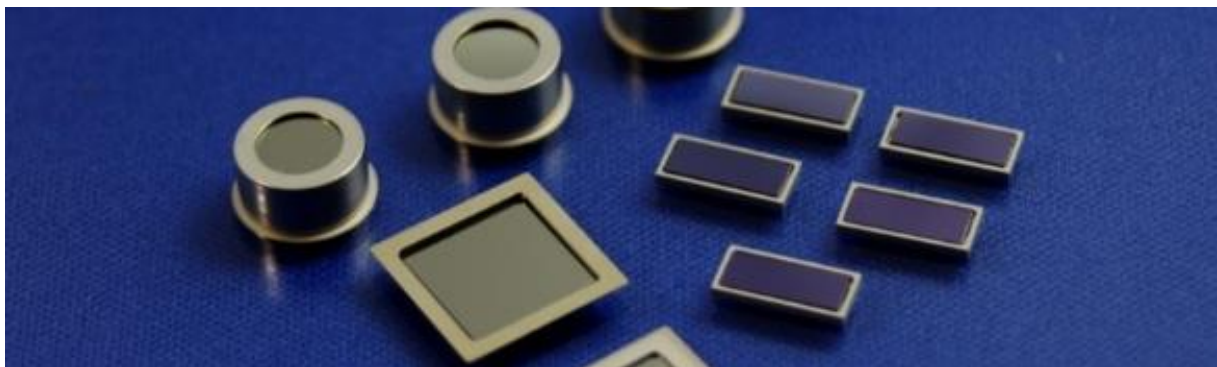
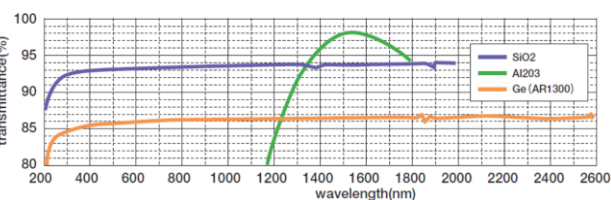
■ Products for IR

Silica glass, sapphire, Si, and Ge, etc.

We can propose optimal material and optical coating for IR applications.

LID and Cap for IR Package

Recently mid-infrared rays have been attracting more attention due to their availability in LiDAR, spectroscopic measurement, gas detection, etc. Yamamura Photonics proposes LIDs /Caps using special window materials such as silica glass, sapphire, Si, and Ge for IR usage because IR rays cannot be transmitted through ordinary glass materials. Please feel free to contact us as we can customize the design according to your needs.

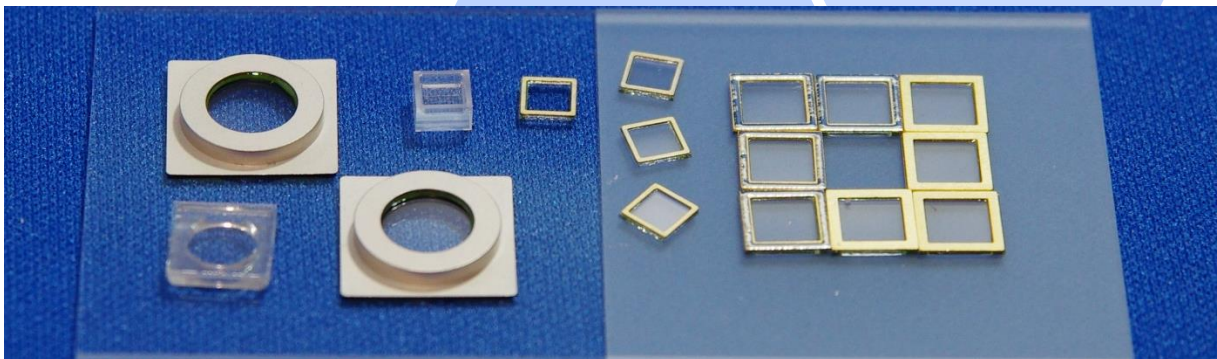
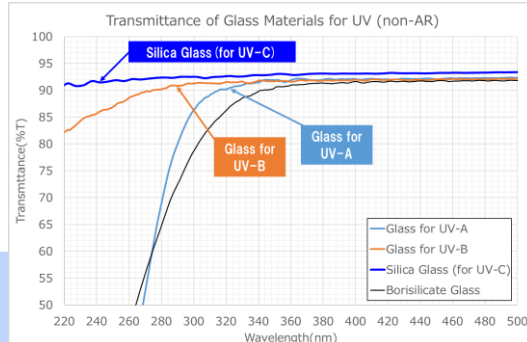


■ Products for UV

Yamamura Photonics' original glass with superior ultraviolet ray transmission is used to provide products for ultraviolet applications.

LID and Cap for UV package

Yamamura Photonics offers LIDs/Caps for UV applications. In addition to silica glass and sapphire, we can design products using our original UV-transmitting glass as the window material. We are also focusing on the development of LID with silica glass window because the needs for UV-C packages are increasing with the recent expansion of demand for sterilization applications. We will contribute to the development of the ever-expanding UV market.



Contact Information

New Product Development Department

4207 Ikonobecho, Tsuzukiku, Yokohama, 224-0053 Japan

URL : <https://www.yama-ph.co.jp/en/contact/> (Inquiry form)

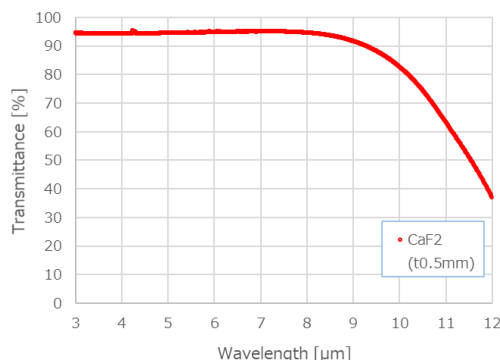
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■ Assembled Products with Resin Adhesive

By using Yamamura's original resin adhesives with excellent weather resistance, heat resistance, and hermeticity, we are developing packages with CaF₂ or silica glass windows.

Packages Assembled with "Hybrid Material"

CaF₂ and silica glass are excellent window materials in transmittance from ultraviolet to infrared. However, it is difficult to hermetically join the CaF₂ window and the metal parts due to the mismatching of their thermal expansion coefficients. Yamamura Photonics is developing CaF₂ window packages using a silicone-based resin named "Hybrid Material" developed by Nihon Yamamura Glass, a group company. Because of the flexibility of the hybrid material, we can join CaF₂ and silica glass to metals with different thermal expansion coefficients. In addition, we can realize superior hermeticity to the products using general silicone-based resin by using the "Hybrid Material". We are continuously making efforts to open up new possibilities of packaging for ultraviolet and infrared applications.



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