

How Long COVID Is Changing Healthcare

# Newsweek

INTERNATIONAL

SPECIAL REPORT

# CHINA'S EYES ON THE U.S.

TO QUASH DISSENT, BEIJING IS RAMPING UP SURVEILLANCE AND HARASSMENT—DEEP INSIDE IN AMERICA

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# Glass ceramics and optical parts supporting next generation industries

Beginning with glass-metal sealing, Yamamura Photonics continues to support a wide range of industries through its glass ceramic material and small component assembly technologies.

The art of working with glass dates back millennia, but innovative technology is pushing the glass industry into the modern era. One of the companies at the vanguard of glass-to-metal sealing technology is Yamamura Photonics. Founded in 1949, the company has grown into an industry leader

and its core Glass To Metal Seal (GTMS) technology has applications ranging from X-ray devices to high-voltage railroads.

Sealing glass to metal is a complicated process. Yamamura's GTMS technology has enabled the company to develop a wide range of products such as

the TO-Cap, a flat window or lens cap with high hermeticity used in LD or PD hermetic packages, and the Glass LID used in thinner packages such as LEDs or lasers.

These products have been developed through Yamamura's own take on *monozukuri*, which company president Tomoyuki Taguchi describes: "The most important thing for us is to manufacture and then provide products which can cater to customers' needs. This is a process of continuous improvement."

Yamamura recently introduced its Low Temperature Co-Fired Ceramics (LTCC) green sheets for substrates, which are lead-free and have been developed for 5G applications, having a lower dielectric loss compared to conventional sheets. This understanding of the develop-



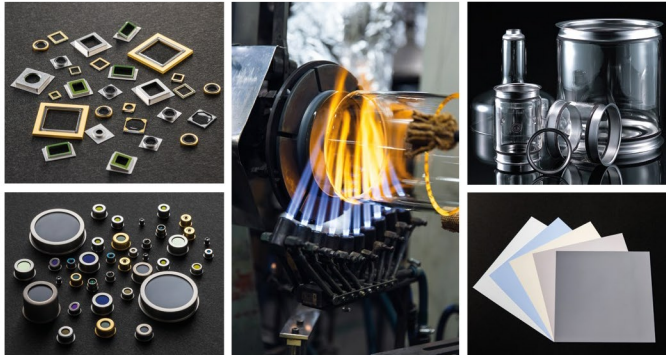
"We at Yamamura Photonics will continue to make the impossible possible through our wide range of core technologies."

Tomoyuki Taguchi, President,  
Yamamura Photonics Co., Ltd.

ing needs of the market comes from the company's dedication to communicating with its customers, which Mr. Taguchi says differentiates Yamamura from its competitors. The company's customer-centric approach has been key to its expansion into the Asian market, and Mr. Taguchi reveals plans to grow in North America and Europe as well.

**YAMAMURA PHOTONICS CO., LTD.**

[www.yama-ph.co.jp/en](http://www.yama-ph.co.jp/en)



Yamamura's GTMS, Glass LID, TO-Cap, and LTCC products