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**AJI CO.,LTD.**

President : Kunio Yoshida

: 6F Yokohama world porters, 2-2-1 Shinkou Naka-ku  
Yokohama city, Kanagawa,Japan 231-0001

Tel : 045-222-2985

FAX : 045-222-2986

URL : <http://www.ajisso.com>

### AJI Introduces new manufacturing method for wafer level optical component

AJI developed a new 100% resin manufacturing method which can realize camera module downsizings and increase in performance.

We have already obtained patents of related technology.

It gives a great advantage compared to the conventional technology.

It can realize far greater downsizing of small cameras including cell phone camera modules and drastically reduce the cost.

It offers so strong resistance to high temperatures that it remains unchanged in optical characteristics if you jisso after reflow.(Reflow temperature is 270°C x 1 Min x 3 times)

We are planning to develop them for cell phone cameras at first. But we are thinking to develop them for LED auto parts and optical components in the medical field.

- 1) This is a new manufacturing method for wafer level optical component which is made from special resin. This method can provide far greater flexibility for optical design.
- 2) We also have developed wafer level high precision molding manufacturing technologies. It will allow manufacture millimeter sized parts with nano level precision. In addition to this, we developed a technology which corrects shape defect errors caused by material constriction, so it can realizes a lower cost manufacture.
- 3) Lenses produced by this technologies have offered stronger resistance to high temperatures(TG: glass transition temperature:230°C)than ever before and remain unchanged in optical characteristic. So you can put it directory in a reflow furnace to simplify the manufacturing process.

- 4) We don't need wafer sized glass substrates any more to reduce cost and realize thinner products.
- 5) we are thinking to develop them for LED auto parts and optical component in the medical field

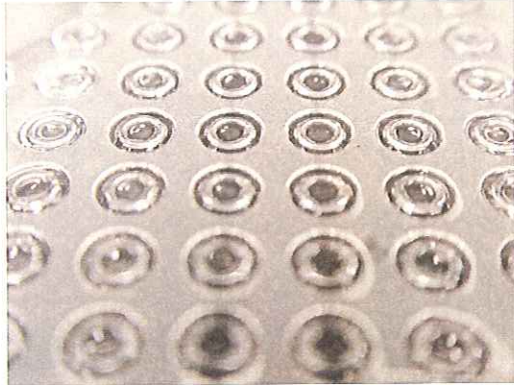


Fig. 1: wafer level lens

**AJI CO.,LTD.**

Established : July/1998

Capital : ¥65,000,000.

Sales : ¥970,000,000. (as of Jun 2008)

Number of employees : 17

President : Kunio Yoshida

Major business line : Sales, manufacture and R&D of semiconductor jisso manufacturing equipments and micro parts high precision assembly equipments.

Head Office : 6F Yokohama world porters, 2-2-1 Shinkou Naka-ku, Yokohama city, Kanagawa, Japan 231-0001

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Contact

○AJI CO.,LTD. Yoshida yoshida@ajisso.com

TEL 045-222-2985 FAX 045-222-2986

〒231-0001 6F Yokohama world porters, 2-2-1 Shinkou Naka-ku

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## Terms

### Wafer level optical component

Conventional optical components were made by injection molding. An injection molding can produce 13-32 pieces at a time and then assembled them at post-process. Wafer level optical components can produce 2000-15000 lenses at once in wafer sizes of 200mm or 300m and then you can stack those wafer lenses and make camera.