



321 Photonics Center
2-1 Yamadaoka, Suita
Osaka, 565-0871, Japan
T 06-6878-9911
F 06-6878-9912
info@nanophoton.jp
www.nanophoton.jp

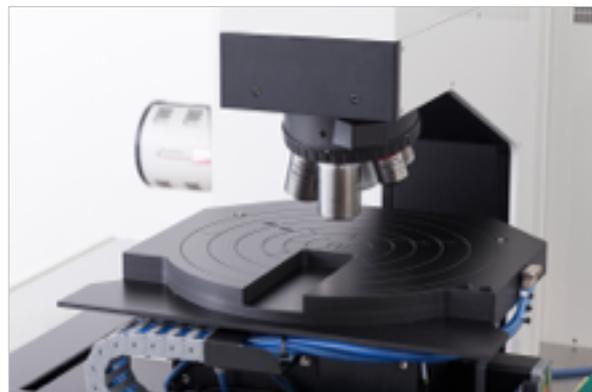
August 8, 2016

Novel Wafer Analyzer for up to 300 mm wafer using high speed Raman Imaging Technology

Nanophoton introduces RAMANdrive - a new Wafer Analyzer - for a wide range of applications at [IC-CGE-18](#) (the 18th International Conference on Crystal Growth and Epitaxy) in Nagoya, Japan, August 7th - 12th, 2016.

With sub-micron resolution, RAMANdrive provides stress-, polytype-, defect distribution etc. in 3 dimensions using the most powerful Raman Imaging Technology of Nanophoton. The dedicated 300 mm stage was developed for accurate and safe analysis of the whole wafer, while the Raman Imaging System provides you with high performance data. Especially the unique Nanophoton Stage Navigation System features easy and fast operation by implementing your data from the regular inspection system and use it to move the wafer to all positions you are interested in for a detailed analysis.

Michael Verst - President/CEO of Nanophoton - commented: "Raman Imaging is one of the most exiting technologies for wafer analysis. It provides comprehensive data about stress, polytype, impurity or contamination non-destructively in all 3 dimensions. In combination with our dedicated 300 mm wafer stage, I strongly believe that our RAMANdrive will be a powerful tool especially for QA/QC as well as development work. It will substantially improve the yield ratio, but also accelerate the development of new materials etc. Nanophoton invested a substantial amount of efforts in the development and during all the time we worked closely with related experts to meet the requirements of our customers in the semiconductor industry."



The unique features of RAMANdrive

1. Stage Navigation System

The Nanophoton Stage Navigation System implements your data from your inspection system and use it to move the wafer to all positions you are interested in for a detailed analysis. The dedicated stage moves the wafer safe and with high accuracy to all areas of interest.

2. Identification of particles even smaller than 100nm

RAMANdrive uses high-quality dark-field microscopy to easily localize particles, even smaller than 100 nm. The analysis of the particle is done by highest performance Raman spectroscopy and provides detailed analysis of the composition of the material.

3. 3D stress observation by powerful Raman Imaging.

High quality confocal optics gives RAMANdrive highest performance 3D Raman Imaging capability. Stress distribution and polytype distribution can be clearly visualized in 3D with submicron resolution.

About Nanophoton

Nanophoton is a manufacturer of high performance analytical and imaging instruments with major focus on innovative Raman systems by using most updated nano- and photonics technology. Nanophoton was established in February 2003 in Osaka, Japan, by various professional scientists, engineers and managers sharing the same vision, providing "Leading edge analytical instruments and microscopes from Japan!" "Change the world by nanotechnology and photonics" by providing most advanced solutions for the scientific community as well as industry is Nanophoton's vision. Always being in the front line of the most recent developments in performance and quality is as important as substantially contributing to the progress in science and industry. The goal is to achieve and exceed the expectations, requirements and needs of our customers!

Nanophoton Corporation www.nanophoton.jp

Nanophoton Tokyo Showroom | Japan

Mastlife Nishishinbashi Bldg. 4F, 3-6-10 Nishi-Shinbashi,
Minato-ku, Tokyo, 105-0003, Japan
TEL : +81 3 6432 4881
info@nanophoton.jp

Nanophoton Osaka R&D Center | Japan

321 Photonics Center, 2-1 Yamadaoka,
Suita, Osaka, 565-0871, Japan
TEL : +81 6 6878 9911 FAX : +81 6 6878 9912
info@nanophoton.jp

Nanophoton China | China

216 2F, First Shanghai Central Bldg.,
39 Liangmaqiao Rd., Chaoyang Dist.,
Beijing, 100125, China
TEL : +86-138-1119-3082
info@nanophoton.cn

Nanophoton SEA | Korea

Room 202, Pangyo seven venture 1, 3-Dong
15, Pangyo-ro, 228 beon-gil, Bundang-gu,
Seong nam-si, Gyeonggi-do, Korea 13487
TEL : +82 31 703 4525
info@nanophoton.kr

Nanophoton GmbH | Germany

Tueschendorfer Str. 19a, 28879 Grasberg, Germany
TEL : +49 4283 9808860
info@nanophoton.de