

NEW

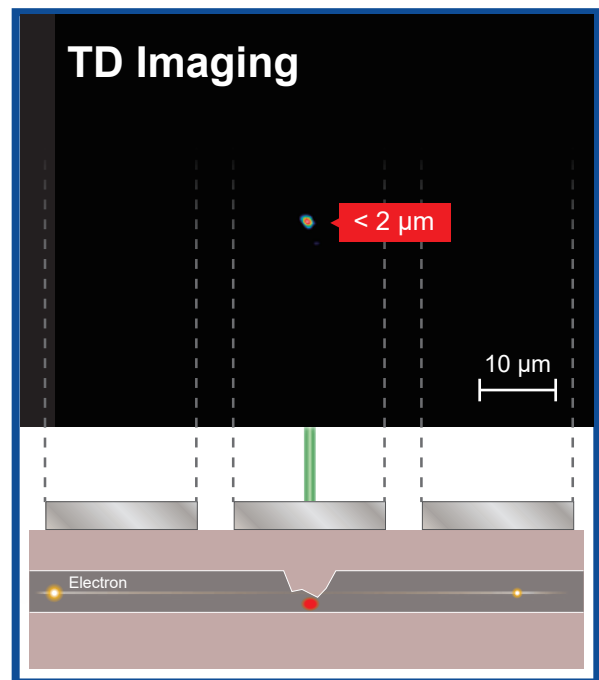
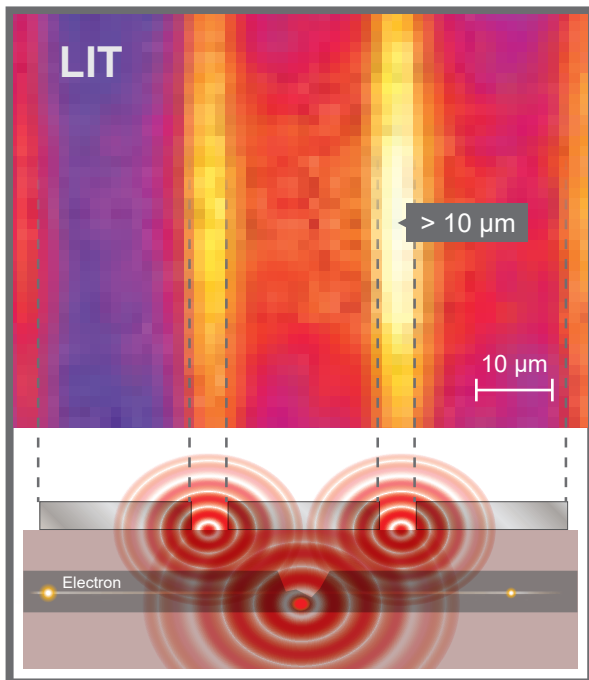
TD Imaging

ThermoDynamic Imaging for PHEMOS® series



For more details

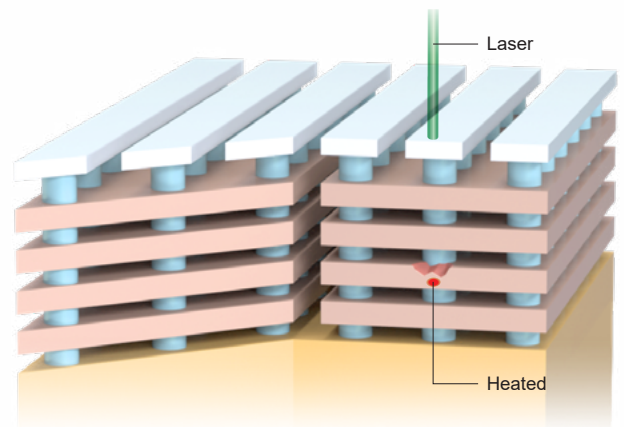
Pinpoint defects in complex semiconductor structures through metal



Features

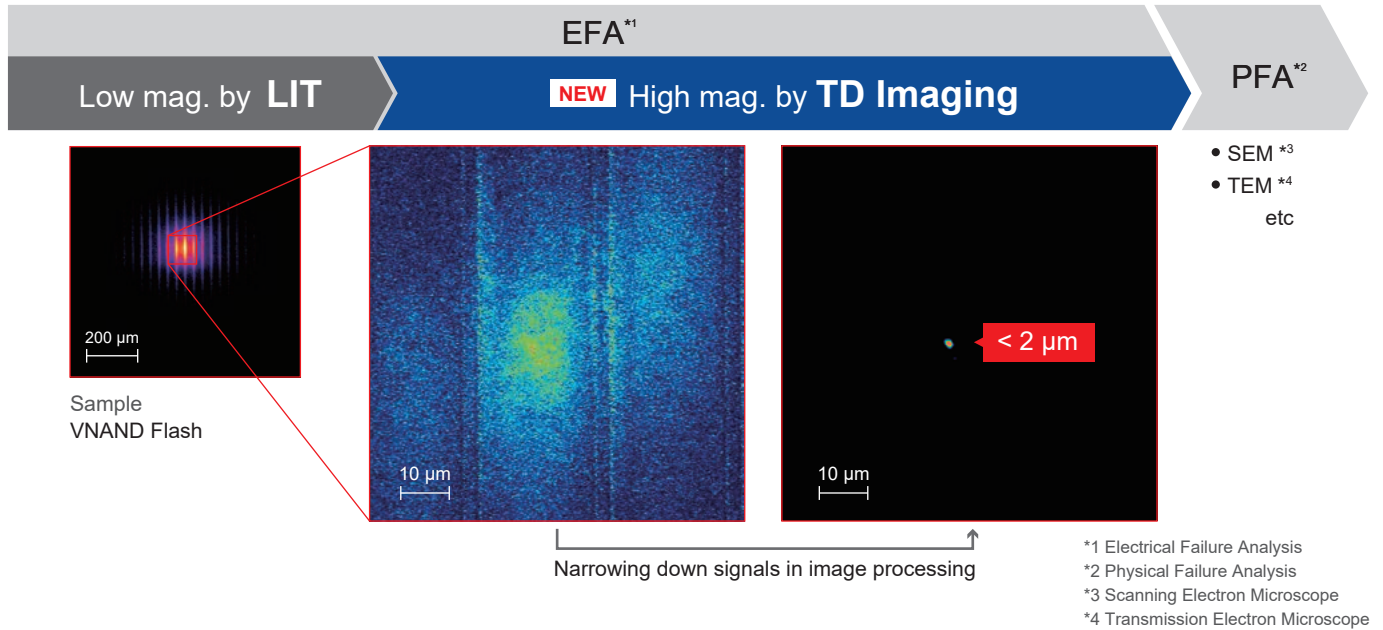
- **Patented Laser scan technology**
38× SNR compared to conventional thermo reflectance.
- **Selecting the optimal wavelength**
670 nm light source can improve SNR 4× for certain materials.
- **Higher sensitivity compared to LIT**
TD Imaging delivers higher SNR than the trend line of LIT *.

* Lock-In Thermography

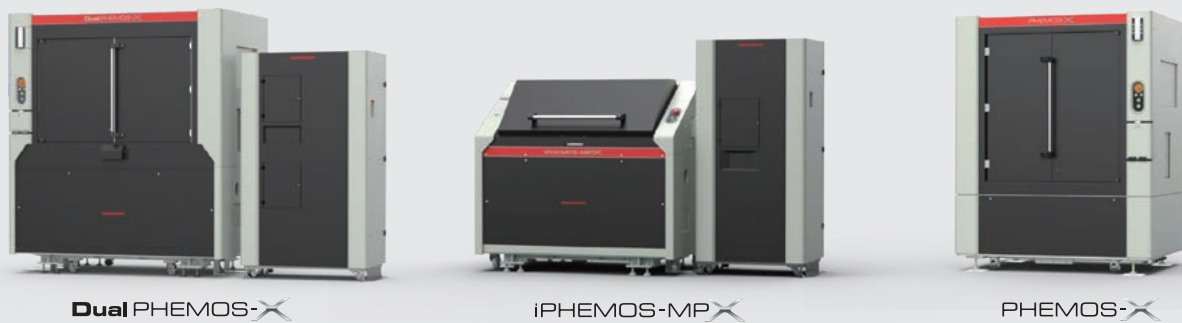


Proposed combined workflow

After detecting a wide range of signals using LIT technology, the PFA hit rate is improved by narrowing down the signals to 2 μm using TD Imaging while leveraging image processing. This makes defect identification more accurate and enhances the efficiency of analysis.



TD Imaging is compatible with PHEMOS series.



LASER SAFETY

Dual PHEMOS-X, PHEMOS-X, iPHEMOS-MPX are Class 1 laser products. Hamamatsu Photonics classifies laser diodes, and provides appropriate safety measures and labels according to the classification as required for manufacturers according to IEC 60825-1. When using this product, follow all safety measures according to the IEC.

CLASS 1 LASER PRODUCT

Description Label (Sample)



Caution Label

- iPHEMOS is registered trademark of Hamamatsu Photonics K.K. (Japan).
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 - Subject to local technical requirements and regulations, availability of products included in this brochure may vary. Please consult your local sales representative.
 - The product described in this brochure is designed to meet the written specifications, when used strictly in accordance with all instructions.
 - The university, institute, or company name of the researchers, whose measurement data is published in this brochure, is subject to change.
 - The measurement example in this brochure is not guaranteed.
 - Specifications and external appearance are subject to change without notice.
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