

Press Release

Photo electron Soul raised \$3M (¥350M)

Making a Revolution in e-Beam Inspection

Nagoya, Japan (May 2022) Photo electron Soul Inc. announced that it has closed a financing round of \$3M (¥350M).

Photo electron Soul is the first and only company providing photocathode e-beam systems to the semiconductor industry. Photo electron Soul CEO, Takayuki Suzuki, says: "We are advancing the semiconductor inspection tool business. As you may know, low throughput has been one of the main challenges to overcome with respect to e-beam inspection up to the present time. However, our technology makes the inspection process more than 10 times faster than what anyone else is able to achieve with today's e-beam technology."



In addition to the above, Photo electron Soul has developed a new technology named "Selective e-Beaming (SeB)." With regard to SEM imaging, this technology enables the e-beaming of samples with the desired probe current and location at the single-pixel level. SeB is implemented by integrating systems such as the pulse beam, beam scanning, and imaging systems.

CEO Suzuki says: "With SeB, sample damage caused by e-beaming is reduced. In addition, we recently confirmed that SeB can operate CMOS transistors for testing on semiconductor chips. This has amazed some chip manufacturers, and we have already started collaborations to develop new applications for inspection with SeB."

CEO Suzuki concludes: "We are in evaluation programs together with inspection tool makers, and expanding the number of tool makers we engage with as partners. Through the programs and

collaboration with inspection tool makers as well as chip manufacturers, we are moving the industry forward. We are confident that our technology will continue to be valued by all.”

Photo electron Soul will use the funding to continue business development and product manufacturing.

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