

Development of flexible-arm photoacoustic imaging system (Luxonus Inc.)



City	Year of Establishment	Founder	Website
Minato-ku, Tokyo	2018	Sadakazu Aiso	https://www.luxonus.jp/

Partner VC	Latest round of Fundraising	Valuation
—	Series C	Non-Disclosure

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○ Business Plan

Using photoacoustic 3D imaging technology which obtains high-definition 3D images of blood vessels without radiation exposure or contrast agent, a new concept photoacoustic imaging system that is compact and enables imaging in any direction will be developed. The system is easy to use for medical professionals with minimal patient burden, and its applications can be expanded.

○ Research Outline

In this R&D, a flexible-arm photoacoustic imaging system will be developed with improving hemispherical ultrasound detectors. The following PoCs will be attained to realize the expansion of clinical applications.

- ① Realization of a flexible arm type sensor module that enables imaging in any directions.
- ② Demonstration of simultaneous 3D imaging of oxygen saturation and lymphatic vessels.
- ③ Evaluation of imaging performance of photoacoustic imaging systems by a medical institution.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Healthcare	PCA 2023-2025FY	JPY298 million	—