

Establishment of a continuous synthesis system to accelerate practical application of complete solid solution alloy nanoparticles(illuminus.inc)



City	Year of Establishment	Founder
Chuo-ku Tokyo	2023	Masashi Hirano

Partner VC	Latest round of Fundraising	Valuation
JMTC Capital Co., Ltd.	Seed	Non-Disclosure

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○ Business Plan
We have established a technology to synthesize various new nanoparticle materials by focusing a high-power pulsed laser in a liquid and using a non-equilibrium, high-intensity reaction field near the focus, with the aim of making industrial contributions in the fields of mass-production electronic components, a wide range of catalysts, pharmaceuticals, etc.

○ Research Outline
Aiming to accelerate the practical application of complete solid solution alloy nanoparticles, we will investigate technologies for synthesizing nanoparticles to achieve larger production volumes, and develop component machines for a synthesis system, aiming to resolve issues with pure metal nanoparticle materials currently used in fields such as electronic components and catalysts.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Materials	STS 2025～2026FY	JPY 187 million	-