The future is visible A new world you wear all day

Introduction @ EPIC Espoo Tim Tiek Douwe Geuzebroek



brilianceRGB.com

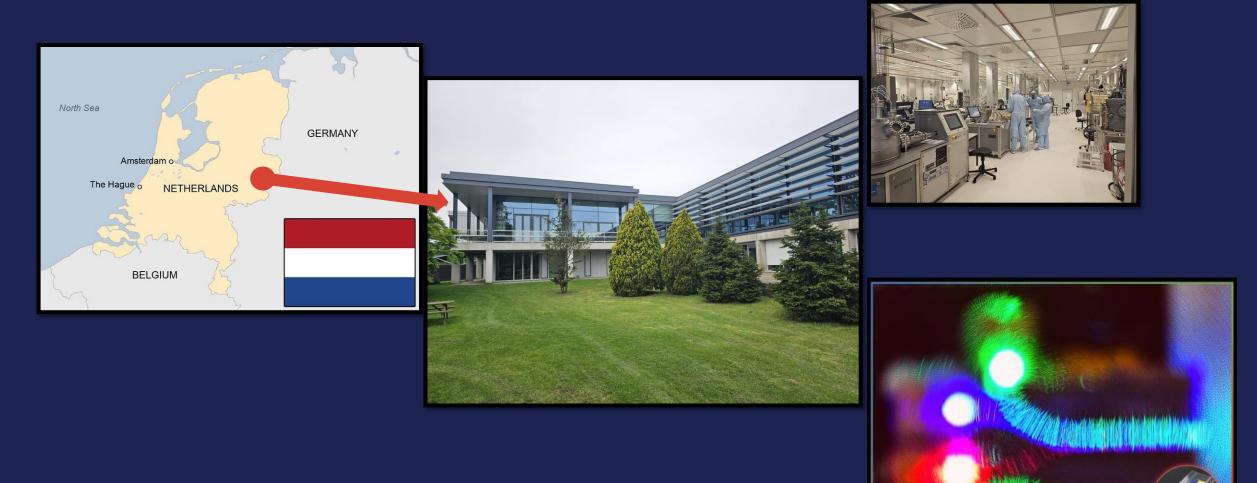


Introduction: Who?





Introduction: Where?





Introduction Brilliance

Brilliance enables the optimal Augmented Reality experience by delivering the ultimate laser light engine



These laser engines enable our customers to overcome the challenges of miniaturization, integration, image quality and energy efficiency for projection applications such as AR

Our patented silicon-nitride based platform and laser integration are based on >20 years of integrated photonics experience. We offer technical superiority and bring high-quality low-cost volume production to Laser Beam Scanning



Enabling every day Augmented Reality

Size, style & useability determine comfort & market acceptance

Miniaturization essential Outdoor AR: Brightness & Efficiency

2015







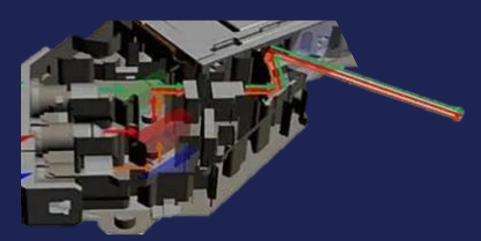


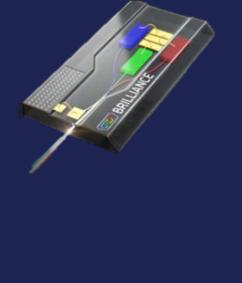
Status Quo

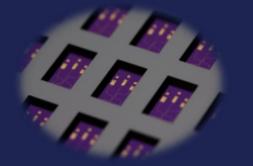
Complex & expensive discrete light engine Challenges with stability, lifetime & robustness Mediocre image quality due to discrete optical performance Difficult/expensive to produce in high volume

Our Solution

Elegant simple design fully integrated into 1 chip Smallest, lightest & most robust solution Solving image quality challenges Can be mass produced on wafer scale





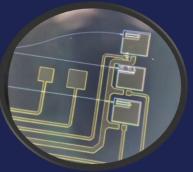




The Brilliance Solution



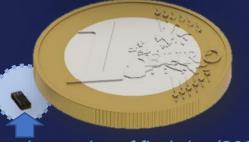




Close-up of chip detail



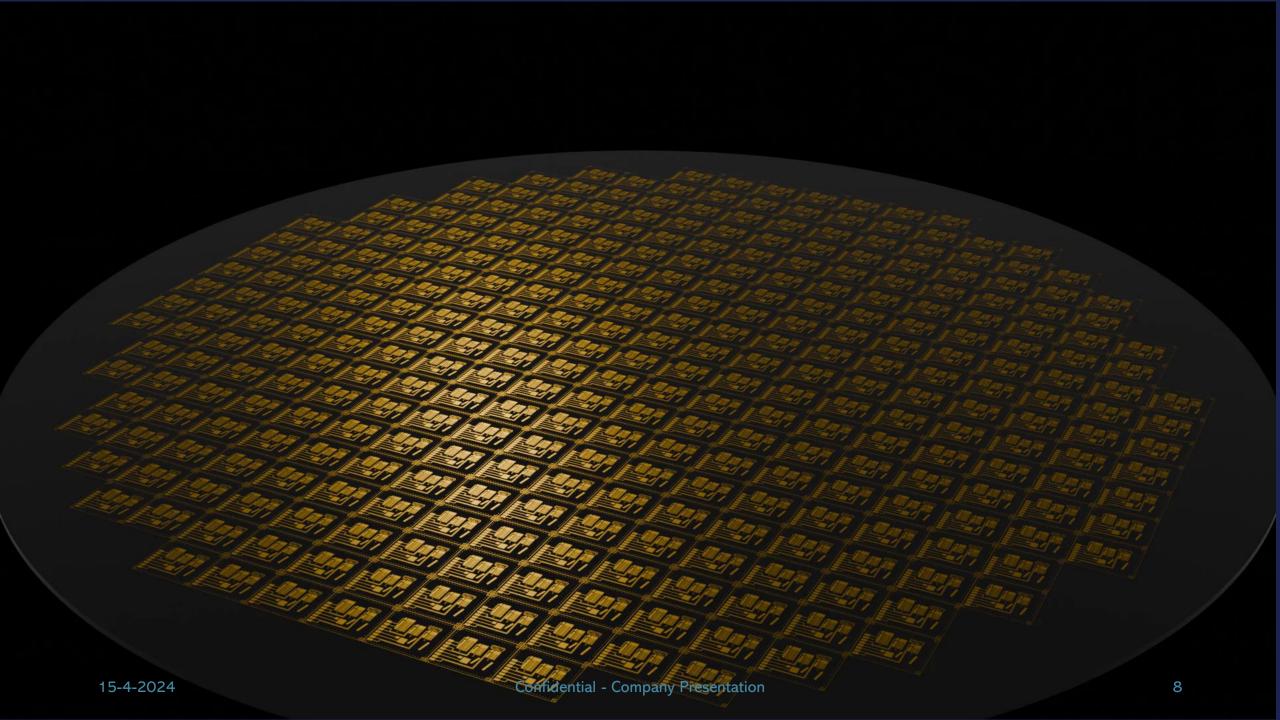
Demonstration hardware



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Impression of final size (2025)
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The Brilliance Light Engine:

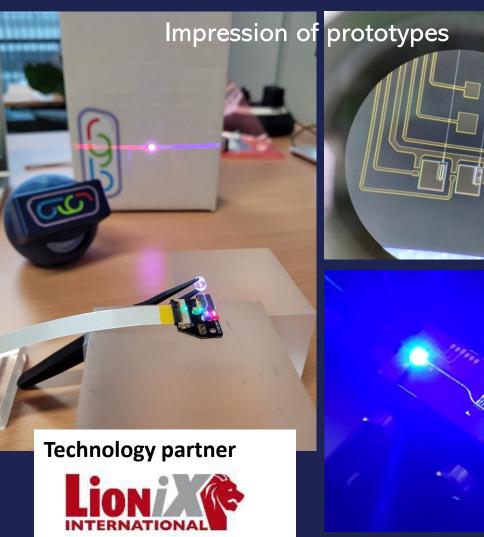
- Can be easily integrated into any projection device
- Patented TripleX Integrated Photonics \rightarrow Superb image quality •
- Output power between 1 and 100mW •
- Super small size: Only a few mm²
- Integrated Photonic design allows customization and control over optical output properties •





Local Foundry & strong ecosystem in NL

The future is visible





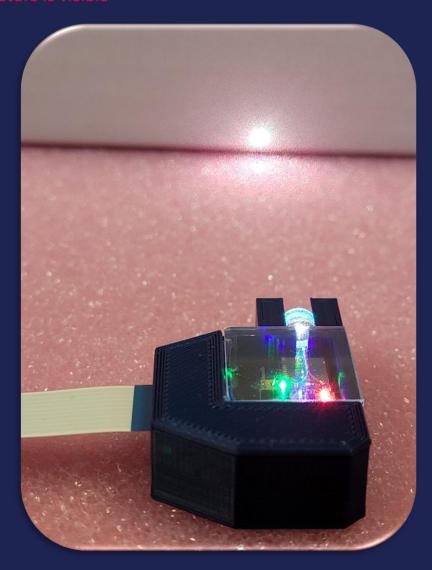
Industrialization partner



Other Brilliance partners

Brilliance has representatives in US, EU and Israel, and ecosystem partners in Holland Semiconductor, HighTechNL, worldwide integrated photonics community...







"Neptune" in July



The next generation Brilliance RGB laser is called "Neptune". It offers:

- Fully integrated lasers
- Smaller size (<18mm²)
- Optimized output shape perfect round spot
- >85% efficiency in the optical domain
- Low/medium volume production capable (2025 SOP & ramp-up)

\rightarrow Engineering demo kits available per Q3'24

31-5-2024



Thank you for your attention!



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Brilliance Roadmap

