

IMPALA LTD.

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Website: www.impala.co.il
Year established: 1997
Contact person: Mr. Reuben Fuchs, CEO

Ownership: Private
Parent Organization: Pamot Venture Capital Fund, Yeda R&D Ltd.

Core Business:

Intra cavity patented enable technology for high order single mode selection. The technology enables significant improvement of lasers brightness and beam distribution.

Total number of employees: 5

Overview:

IMPALA holds a patented technology with a potential to improve the performance of most lasers, from tiny micro lasers used in communication via robust lasers used for material processing and up to military strength lasers. Solid patents with worldwide coverage protect IMPALA's technology. Strong IP position, together with a feasible fab-less manufacturing process, enables a very high margin business model.

IMPALA proved the basic functionality of the technology in an industrial CO₂ laser of 2.2kW for material processing, and continue development in order to supply higher and better performance of metal cutting and drilling with high efficiency in industrial CO₂ lasers, toward deliver of first mature product, within the following year. That technology has high market demand, well defined customers, and market stability forecast for many years. A simple business model with proved technology concept combines low risk and revenues with high margin, in a growing market.

IMPALA's business model is based on direct sales of Optimode® range of optical components to its customers worldwide, which are laser manufacturers and the suppliers – a well defined market segment. The Optimode® product is easily integrated in the lasers as an add on optical component, providing an increase in brightness and better focal point power distribution, leading to high performance capabilities.

The team includes 5 people with broad experience in high tech management, lasers experts three with Ph.D. in laser technology, and an advisory board including the inventor Prof. Asher A. Friesem a professor of optical sciences in Weizmann Institute, Rehovot, Israel.

The Advantages:

- Allow single high order transverse mode without significant lose of output power, enabling new opportunities in various applications.
- Allow radial and azimuthal beam polarization, enabling new opportunities in biology, material processing and nano-technology.
- Enable the design of entirely new laser configuration with better beam quality and output power.
- Can be easily used to upgrade existing lasers.
- Utilize generic technology and thus suitable for most types of lasers.

Open the way for the development of long-awaited high-power, high-brightness systems for various applications.