

GREEN-LASE SERIES

The Green-Lase 4W and 10W laser sources and markers operate on the V-Lase platform and use Second Harmonic Generation (SHG) in an intracavity architecture, which maximizes LBO non-linear crystal conversion efficiency. The Green-Lase wavelength results in a lower "heat affected zone" compared with an infrared laser. This effective laser source thus offers significant advantages in marking applications with materials such as plastics that do not interact with the original infrared wavelength, as well as with semiconductors such as silicon (e.g. wafer marking). Superior absorption coefficient in semiconductor material used in solar cells makes this source ideal for photovoltaic applications (e.g.: thin film scribing)

V-LASE PLATFORM

- The V-Lase platform derives from the long experience in the production of high performance and high quality DPSS laser sources. The Green-Lase@532nm use the state-of-the-art End Pumped Coupling Technology, which represents the leading-edge solution in the field of laser sources.
- The platform is characterized by a standard compact case, continuous and precise power control and low power consumption. Moreover, special attention has been dedicated to the safety aspects. The proprietary end-pumped architecture using a TE cooled diode laser pump with unmatched MTBF, assures the reliability and availability of the system.
- The V-Lase platform offers lasers with excellent beam quality, high peak power and short pulse width. The operator is able to precisely tune the power and pulse repetition rate. Very high brilliance in the laser spot, at longer focal lengths, makes the V-Lase platform ideal for marking a broad range of materials, even with large marking fields.
- Designed for very demanding 24/7 processes, the V-Lase platform offers unparalleled performance and represents the ideal solution for both direct part marking and label marking in every market segment including automotive, solar & electronics, packaging, as well as in medical surgical tools marking and other applications.
- The V-Lase platform significantly extends the possibility of connection between the laser source and the operating system. The communication with the system is enabled by RS232. In addition, the V-Lase platform also has an I/O for the connection of the TTL and analogue signals. Ethernet connection is available for monitoring.



LASER MARKING

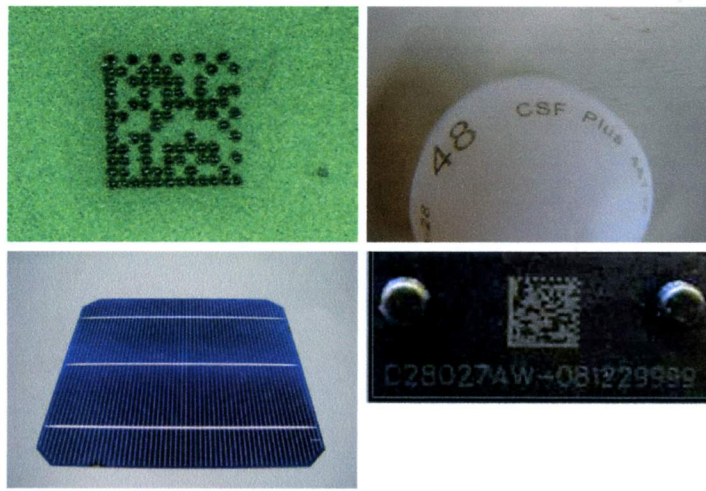
FEATURES & BENEFITS

- Easy integration and configuration
- High reliability
- Lower "heat affected zone"
- Ideal solution for PCB marking
- Excellent marking results on semiconductors and silicon and on materials such as non-doped plastics not interacting with IR
- State-of-the art marking kit including user friendly marking software

APPLICATIONS

This product series has been developed to satisfy to requirements of the following reference applications in automotive and electronics & solar, among the others.

- Marking of plastic (when not sensitive to IR) and thin film ablation
- Marking on silicon and semiconductors and others applications in the electronics Industry



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Applied Coding Technologies
 26851 Ipava Avenue
 Lakeville, MN 55044
 952-469-5617