

UV-LASE SERIES

The UV laser source exploits the extensive experience and success of the DPSS family and is based on the mechanic optical architecture of Third Harmonic Generation (THG). The extracavity technology allows high efficiency conversion of the LBO nonlinear crystal and compactness of the laser source.

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 UV-Lase sources and markers @355nm 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.

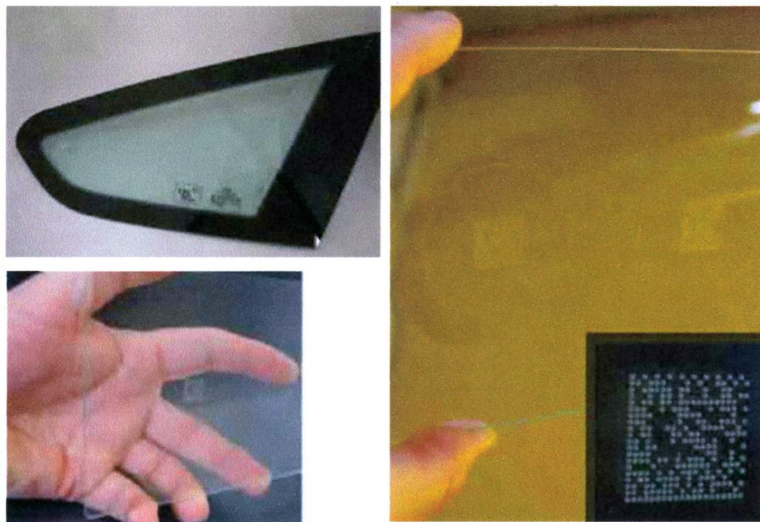


FEATURES & BENEFITS

- Extended Lifetime
- Extremely compact
- Easy maintenance
- Motorized Crystal Shifter
- Fast FPK
- High reliability
- Excellent Beam Quality for superior marking & processing application
- Air-cooled industrial design
- Advanced diagnostic & easy connection
- Based on state-of-the-art V-Lase Platform

APPLICATIONS

The UV-Lase wavelength produces less mechanical distortion and less heat affected zones (HAZ) in comparison with longer laser radiations. The high performances of this laser source make it ideal for the very demanding marking and material process applications, such as glass and non-doped plastics in automotive, healthcare, aeronautic, solar & electronics among the other.



LASER MARKING