

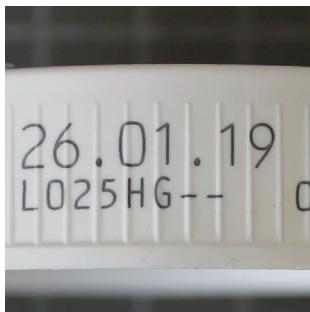
e-SolarMark+ eDLV

Ultra high speed UV laser marking and coding system



Ultra high-speed marking system for most demanding applications

- Compact DPSS laser systems for plastic and metal marking.
- High quality solution for permanent laser codes of alphanumeric texts / dates / timers, serial numbers, barcodes, 2D codes and graphics on products and packages.
- Integration friendly design, modular and compact size.



HDPE and LDPE

High peak power UV laser is capable of permanent dark and high-contrast marking



Glass engraving

High UV radiation absorption in the material allows engraving in glass at very high quality



Food and beverage

Cold, photochemical reaction between the UV radiation and the treated surface results in a dark and smooth mark



Automotive and electronics

Combination of high pulse energy and high absorption of 355 nm radiation. Marking speed of up to 10 meters per second.



Other



e-SolarMark+ eDLV

High-contrast marking

Higher level of absorption of the 355 nm laser radiation in comparison to standard wavelengths (1064 nm, 532 nm), provides sharp and more visible marks on most types of plastic elements.



Other



e-SolarMark+ eDLV

Damage free cold marking

Pulse durations in the regime of single nanoseconds keep the heating of the marked surface under melting point as well as thermal degradation of the element. This prevents from non-aesthetic, brownish effect of laser marking.

Third harmonic generation process

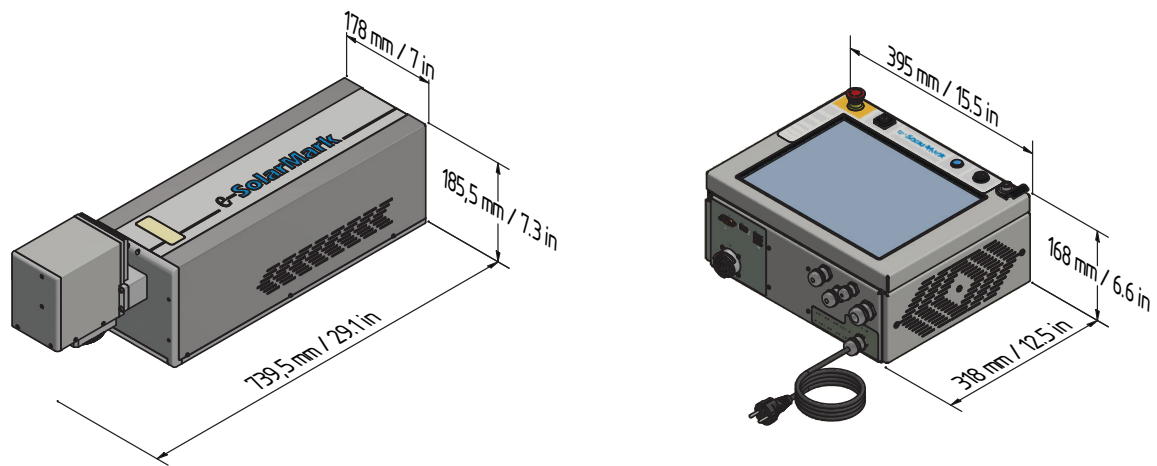
Laser beam with a wavelength of 1064 nm interacts with a non-linear crystal. As a result after the medium two laser beams propagate: 1064 nm and 532 nm (called the green laser). These two beams then interact with a second crystal and as a result of the sum frequency mixing we receive the 355 nm wavelength radiation



SOLARIS LASER

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e-SolarMark+ eDLV specifications



Laser type	DPSS UV, 3W
Wavelength	355 nm
Electrical requirements	115V/230V, 50/60 Hz, 1 PH - Auto
Marking field	150x150 mm
User interface	Multilingual 15" touchscreen with user friendly, intuitive software to preview , edit and new job file creation and system setup
Software	Job editor for Windows 7 ,8, 10, and 11
Communication	RS232 / USB / Ethernet 10 Base T
I/O Signals for installation	Shaft encoder, NPN/PNP Product detector inputs Remote Interlock, Key switch, Safety shutter control Fume extractor, Compressed air control System ready, Marking, Fault outputs 15 configurable user Inputs & outputs
Cooling	Integrated air cooling with dust protection
Ambient temperature	10-40°C / 50-104 ° F, Suggested 15-30°C / 69-86° F
Humidity	Up to 90%, non-condensing
Safety	Class 4, according to EN 60825-1 class 4 ready, according to ISO 13849
Weight	Control unit 21 kg / 46 lbs Marking unit 36kg / 79 lbs

Optional accessories

- Remote preventive diagnostics
- Conduit length extension
- Red laser print position preview



CE and CDRH
compliant



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