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3-Watt UV laser coder e-SolarMark+ eDLV

JUN 2028



High-definition and damage free coding for sustainable materials

The e-SolarMark+ eDLV 3-Watt UV laser coding machine offers high-quality coding with minimal heat transfer, preserving substrate surface integrity. Ideal for high-density and delicate materials, where it delivers exceptional performance in highspeed applications. Additionally, it provides solvent-free, chemical-free, and permanent markings.

Your benefits

- High contrast, damage free and permanent coding on different substrates
- Lower OPEX with fewer line stoppages, increased efficiency and no chemicals—ensures greater sustainability
- Virtually maintenance-free, reduced production downtime
- 125% larger screen area and intuitive user interface for increase in operator efficiency
- Easy integration into production line thanks to compact and modular design

Product features

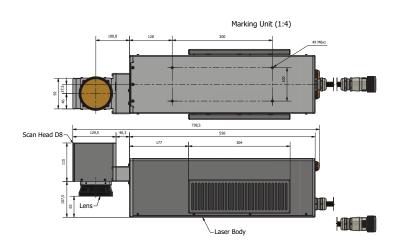
High-definition, damageresistant, permanent codes

- Perfect solution for damage free and high contrast coding on HDPE, LDPE, mono films, PP and PE substrates
- Unique marking method, and unique marking algorithm
- Coding of alphanumerical texts dates / timers, serial numbers, barcodes, 2D codes and graphics
- Compact and modular design, high integration flexibility
- Meets the highest standard of safety for E-stop and interlock circuits per ISO 13849-1 / PLe¹

Lower OpEx, higher efficiency and chemical-free

- No consumables needed
- Virtually maintenance-free
- Higher reliability means higher productivity and fewer line stoppages
- Eliminating solvents and chemicals contributes to achieving sustainability goals

e-SolarMark+ eDLV Specifications





Laser type and properties

3W 355 nm DPSS laser, digital galvanometers

Applications/substrates

Flexible film, metals, some polymers (e.g., HDPE, PP, PVC, PS, etc.)^2 Coding in stationary or moving "on the fly" applications

Marking speed (max.)

Characters/sec:² Up to 1600 char/s

Line speed:² Up to 720 m/min

Print features

Number of text lines: Limited only by character height and allowable print area

Character height: From 0.2 mm to allowable print area

Fonts: English/Latin, Arabic, Cyrillic, Hebrew, Korean, Japanese (Katakana, Hiragana, Kanji), Chinese (Hanzi) OCR, and Unicode

1D barcodes:

Code 39, Code 128, Code 2 of 5 (industry), I2 of 5, EAN 8, EAN 13, Code 128-A, Code 128-B, UPC-A, UPC-E, EAN 128, ITF 14

2D barcodes:

Data Matrix ECC200, QR Code, HIBC QR Code, Micro QR Code, Aztec, DotCode and HIBC Aztec

Logos, graphics: DXF, PLT, FPS, EPS, PS, SVG, AI, CDR

Data automation:

Static, user-prompted, alphanumeric counter, serial, multi-code/calculated field (e.g., yyyymmddnnn)

Time/date handling:

Standard, custom, time / day offsets, start week, update and rounding rules, custom calendars

Print field manipulation:

Linear, angular, rotation, mirror, circular, scaling

Interface and control

Connections:

Ethernet TCP/IP, RS-232, USB, digital I/O, sensor, encoder, shutter, fume extractor controls, alarm beacon, start/stop, safety shutter, dual channel interlocks¹

Direct laser control:

USB / RS232 / Ethernet

Pointing diode:

Standard, configurable: rectangle outline, content

User interface:

15" touchscreen user interface in languages: English, Chinese, French, German, Spanish, Italian, Dutch, Polish, Swedish and Portuguese

Other UI options: Remote PC access

Software solutions:³ SolPad, CoLOS[®]

Industrial interfaces:

Optional Interface: OPC UA (CoLOS®)³, PackML V3.0

Safety interlock:1

Two independent interlock circuits (GIC – General Interlock Circuit & SIC – Shutter Interlock Circuit) enable system integration according to category 4 of machinery safety (EN ISO 13849-1)

Options and accessories

Scanheads: Standard SH 90° angle

Lens options: print area, 150x150 mm; FL= 250mm; 300x300 mm; FL= 511mm;

Misc: Standard laser accessories: encoder, sensors, beacon towers, fume extractors, etc.

ALIA

LASER INSTITUTE OF AMERICA

Solaris Laser

LIA member since 1996

Physical characteristics Ingress protection: IP52 / NEMA 12

Safety performance level: ISO13849 safety performance level: PLe¹; Category 4 machine safety

Operating temperature range: 5° C (41°F) to 40° C (104° F)

Operating humidity: 10 to 95% non-condensing

Electrical power supply: 1 phase 115/230 V 50/60 Hz, 400W

Controller dimensions: 229 mm x 422 mm x 490 mm

Printhead dimensions 210 mm x 223 mm x 739 mm

Controller weight: 18 kg

Printhead weight: 22 kg

Umbilical length: 3.3, 6, 8 m

Outer material:

Controller cabinet: stainless steel; head: stainless steel and aluminum

Cooling:

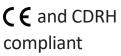
Fan cooled. No plant air required for cooling

1 - Applicable only with use of Safety Box

- 2 Variable based on specific application requirements and substrates
- 3 Regional availability applies







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Solaris Laser Sp. z o.o Farbiarska 39, 02-862 Warsaw, Poland Tel.: +48 22 843 18 03 sales@solarislaser.com.pl www.solarislaser.com.pl