

**Matthews**

## *eSolarMark*

### High Speed, High Quality CO<sub>2</sub> Laser Coding System



- Multiple power options (10w, 30w, 55w, 100w) that provide high performance
- Vector quality, permanent coding of text, date and time codes, serial numbers, barcodes and 2D codes, and graphics
- IP65 rated enclosure for washdown environments (optional)
- Laser coding requires no ink/solvent consumables for a lower overall cost of ownership
- Clean and eco-friendly coding system

The Matthews eSolarMark CO<sub>2</sub> laser coding systems are ideal for high speed food and beverage packaging applications, in addition to many different industrial applications. These lasers can permanently code onto cardboard, coated metals, glass, leather, paper, plastics, and wood. There are four power options to choose from, based on your speed and performance requirements, and there is also an IP65 rated heavy duty version for washdown environments.

The Matthews laser coding systems provide many interface options to connect to remote devices such as PLC's, packaging equipment, material handling equipment, and many other peripheral devices used in the manufacturing environment. Matthews' laser systems have the greatest focal distance, allowing the laser to be mounted further away from production line obstructions, and they are capable of running in static or dynamic mode. There are three control interface models (network, keyboard, or 10.4" color touch screen) and Matthews provides free message design software with every laser system purchased.



eSolarMark CO <sup>2</sup>		10.6 μm Wavelength		
<b>LASER OUTPUT POWER</b>	10W	30W	55W	100W
<b>ELECTRICAL REQUIREMENTS</b>	115V 60Hz/230V 50Hz, Single Phase			
<b>POWER CONSUMPTION</b>	450W	700W	1200W	2500W
<b>COOLING</b>	Integrated fans: at ambient temperature 41 - 104 F (5 - 40 C) Up to 100% of laser duty cycle			Water: at ambient temperature 41 - 104 - 113 F (5 - 45 C) Or in dirty, dusty, humid environment
<b>OPERATING ENVIRONMENT</b>	Ambient temperature 41 - 104 F (5 - 40 C) Humidity up to 80% non-condensing			Ambient temperature 41 - 113 F (5 - 45 C) Humidity up to 95% non-condensing
<b>ENCLOSURE TYPE</b>	IP52, NEMA 12 / IP65, NEMA 4 (Optional)			IP65, NEMA 4
<b>DIMENSIONS AND WEIGHT</b>	Control Unit 12.2" L x 14.2" W x 6.3" H (311 mm L x 360 mm W x 160 mm H) 18 lb. (8 kg)  Marking Unit: 32.2" L x 5.5" W x 5.5" H (818 mm L x 140 mm W x 140 mm H) 29 lb. (13 kg)	Control Unit 12.2" L x 14.2" W x 6.3" H (311 mm L x 360 mm W x 160 mm H) 18 lb. (8 kg)  Marking Unit: 29" L x 5.5" W x 5.5" H (738 mm L x 140 mm W x 140 mm H) 29 lb. (13 kg)	Control Unit 15.4" L x 18.3" W x 7.3" H (391 mm L x 466 mm W x 185 mm H) 18 lb. (8 kg)  Marking Unit: 37.3" L x 5.9" W x 5.9" H (948 mm L x 150 mm W x 150 mm H) 40 lb. (18 kg)	Control Unit 18.9" L x 23.6" W x 44.5" H (480 mm L x 600 mm W x 1130 mm H) 110 lb. (50 kg)  Marking Unit: 36.6" L x 6.2" W x 6.2" H (930 mm L x 158 mm W x 158 mm H) 55 lb. (25 kg)

MARKING SPECIFICATIONS				
Flat field (F-Theta) lens				
<b>MARKING FIELD LENS TYPE</b>	LF2	LF4	LF5	LF8
<b>MARKING FIELD IN mm</b>	50 x 50	100 x 100	120 x 120	200 x 200

- LANGUAGES**
- Different language versions available: English, Chinese, French, German, Spanish, Italian, Dutch, Polish, Swedish, and Portuguese


**CE and CDRH Compliant**

- COMMUNICATION**
- USB/RS232/Ethernet 10 Base T
  - Input/output connector for: system interlocks, remote start/stop, ready, marking, status signals, and remote key switch connection.
  - SolMark II job edition software available for Windows XP, Windows 7

- OPTIONS**
- Multiple user interface options (network, keyboard, touchscreen)
  - IP65 enclosure
  - Scanning head mounting extension modules
  - Product detector and shaft encoder
  - Fumes / dust extractor (with active carbon filter)
  - Chiller for water-cooled systems (IP65)
  - Red laser pointer for marking position preview

DANGER

Invisible Laser Radiation  
Avoid Eye or Skin Exposure to  
Direct or Scattered Radiation



**CO<sub>2</sub> Laser**

10,600 nm, 150 W Max: Class IV Laser Product

Matthews Marking Products continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.



## Matthews Marking Products

**Matthews Marking Products**  
6515 Penn Avenue, Pittsburgh, PA 15206  
(412) 665-2500 • Fax: (412) 665-2550

Möbelgatan 4, 431 33 Mölndal, Sweden  
(46) (31) 338 7900 • Fax: (46) (31) 84 51 17

No. 26 Jinyuan Road, Daxing Industrial Development Zone, Beijing 102600  
(86) 10 88796525 • Fax: (86) 10 88796526

Sold and Distributed Worldwide

