



e-SolarMark

CO2 LASER CODING SYSTEM

The Matthews e-SolarMark CO2 laser coding systems are ideal for high speed food, beverage, and pharmaceutical 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.

Matthews Marking Systems



- Greatest focal distance allows flexible mounting options
- 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
- Improve overall equipment effectiveness (O.E.E.)

[Ink-Jet](#) | [Laser](#) | [Thermal Transfer](#) | [Contact](#) | [Indenting](#) | [Inks](#) | [Custom Solutions](#)



Authorized Local Distributor:
Marsh Micro Systems
Chattanooga, TN 37404
T: 423.629.6245
E: sales@marshmicrosystems.com



e-SolarMark

Technical Specifications


e-SolarMark CO2		10.6µm Wavelength							
LASER OUTPUT POWER		10W		30W		55W		100W	
ELECTRICAL REQUIREMENTS		115V 60Hz/230V 50Hz, Single Phase							
POWER CONSUMPTION		450W		700W		1200W		2500W	
COOLING		Air cooled at ambient temperature 41-104° F (5-40° C) Up to 100% of laser duty cycle		Air cooled at ambient temperature 41-104° F (5-40° C) or Water cooled (HD models only) at ambient temperature 104-113° F (40-45° C) or in dirty, dusty, humid environment Up to 100% of laser duty cycle				Water cooled at ambient temperature 41-113° F (5-45° C)	
OPERATING ENVIRONMENT		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	
ENCLOSURE TYPE		IP52, NEMA 12 / IP65, NEMA 4 (Optional)						IP65, NEMA 4	
DIMENSIONS AND WEIGHT	Control Unit	L: 12.2" W: 14.2" H: 6.3" 18 lb	L: 311 mm W: 360 mm H: 160 mm 8 kg	L: 12.2" W: 14.2" H: 6.3" 18 lb	L: 311 mm W: 360 mm H: 160 mm 8 kg	L: 15.4" W: 18.3" H: 7.3" 18 lb	L: 391 mm W: 466 mm H: 185 mm 8 kg	L: 18.9" W: 23.6" H: 44.5" 110 lb	L: 480 mm W: 600 mm H: 1130 mm 50 kg
	Marking Unit	L: 32.2" W: 5.5" H: 5.5" 29 lb	L: 818 mm W: 140 mm H: 140 mm 13 kg	L: 29" W: 5.5" H: 5.5" 29 lb	L: 738 mm W: 140 mm H: 140 mm 13 kg	L: 37.3" W: 5.9" H: 5.9" 40 lb	L: 948 mm W: 150 mm H: 150 mm 18 kg	L: 36.6" W: 6.2" H: 6.2" 55 lb	L: 930 mm W: 158 mm H: 158 mm 25 kg

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

LANGUAGES AVAILABLE		
English	Spanish	Swedish
Chinese	Italian	Portugese
French	Dutch	
German	Polish	

COMMUNICATION
<ul style="list-style-type: none"> – 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
<ul style="list-style-type: none"> – 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

CE AND CDRH COMPLIANT
<div style="background-color: #333; color: white; padding: 10px; border-radius: 15px; display: inline-block;"> <h1 style="margin: 0;">DANGER</h1> </div>
<p>Invisible Laser Radiation Avoid Eye or Skin Exposure to Direct or Scattered Radiation</p>
 <p>CO₂ Laser</p>
<p>10,600nm, 150W Max Class IV Laser Product</p>

Matthews Marking

Systems



Authorized Local Distributor:
Marsh Micro Systems
Chattanooga, TN 37404
T: 423.629.6245
E: sales@marshmicrosystems.com



Distributed and sold worldwide | www.marshmicrosystems.com

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

2012 Matthews Marking Systems