

eMark CO₂ Laser Coding System

The Matthews eMark 10 watt CO₂ laser coding system permanently marks coated paper, plastics, and glass –making it ideal for a variety of industries. An affordable alternative to small character inkjet technologies, it cleanly marks alphanumeric text, date and time codes, serial numbers, barcodes, 2D codes and graphics. Its simple design allows for quick installation in either stationary or conveyed mode operation.

Matthews laser coding systems provide many interface options to connect to remote devices such as PLC's, packaging equipment, and material handling equipment. Our lasers have the greatest focal distance, allowing the laser to be mounted farther away from production lines. Matthews provides free message design software with every laser system purchased, and our handheld touchscreen programming device can be used for creating, editing and selecting job files.

Features:

- Elimination of solvent and ink consumables
- Low cost of ownership and lowest cost per mark technology
- Simple local message selection and remote programming control using Ethernet, Wireless Ethernet, Bluetooth or USB memory stick
- Cleanest coding system technology available



e-SolarMark+

		10.6µm Wavelength				9.3µm Wavelength		10.2µm Wavelength					
LASER OUTPUT POWER		10W	30W	55W	20W	45W	30W						
ELECTRICAL REQUIREMENTS	115V 60Hz/230V 50Hz, Single Phase												
POWER CONSUMPTION		400W	650W	1100W	650W	1100W	650W						
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 e-SolarMark models only) at ambient temperature 104-113° F (40-45° C) or in dirty, dusty, humid environment. Up to 100% of laser duty cycle											
OPERATING ENVIRONMENT	Ambient temperature 41-104° F (5-40° C) Humidity up to 80% non-condensing												
ENCLOSURE TYPE	IP52, NEMA 12 / IP65, NEMA 4 (Optional)												
DIMENSIONS AND WEIGHT	Control Unit	L: 12.5" W: 15.6" H: 7" 18 lb	L: 318 mm W: 395 mm H: 178 mm 8 kg	L: 12.5" W: 15.6" H: 7" 18 lb	L: 318 mm W: 395 mm H: 178 mm 8 kg	L: 15.4" W: 18.3" H: 7" 18 lb	L: 390 mm W: 464 mm H: 178 mm 8 kg	L: 12.5" W: 15.6" H: 7" 18 lb	L: 318 mm W: 395 mm H: 178 mm 8 kg	L: 15.4" W: 18.3" H: 7" 18 lb	L: 390 mm W: 464 mm H: 178 mm 8 kg	L: 12.5" W: 15.6" H: 7" 18 lb	L: 318 mm W: 395 mm H: 178 mm 8 kg
	Marking Unit <small>(dimensions for standard marking unit with f18 scanning head and no modules)</small>	L: 32.2" W: 5.5" H: 5.5" 29 lb	L: 818 mm W: 140 mm H: 140 mm 13 kg	L: 27.6" W: 5.5" H: 5.5" 29 lb	L: 700 mm W: 140 mm H: 140 mm 13 kg	L: 34.6" W: 5.9" H: 5.9" 40 lb	L: 878 mm W: 150 mm H: 150 mm 18 kg	L: 27.6" W: 5.5" H: 5.5" 29 lb	L: 700 mm W: 140 mm H: 140 mm 13 kg	L: 34.6" W: 5.9" H: 5.9" 40 lb	L: 878 mm W: 150 mm H: 150 mm 18 kg	L: 27.6" W: 5.5" H: 5.5" 29 lb	L: 700 mm W: 140 mm H: 140 mm 13 kg

MARKING SPECIFICATIONS					
Flat field (F-Theta) lens (up to 400 mm x 400 mm marking window)					
LENS TYPE	LF2	LF70	LF4	LF140	LF210
MARKING FIELD IN mm	50 x 50	70 x 70	100 x 100	140 x 140	210 x 210

LANGUAGES AVAILABLE		
English	Spanish	Swedish
Chinese	Italian	Portuguese
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, Vista, 7, 8

OPTIONS
<ul style="list-style-type: none"> – Control unit, touchscreen and OEM base – Scanning head mounting extension modules – Product detector and shaft encoder – Fumes/dust extractor (with active carbon & HEPA filter) – Umbilical lengths 3m, 4m, 6m, 10m – Red laser pointer for marking position preview

