CO2 Laser Marking

SCHMIDT MARKING SYSTEMS
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800-323-1332

LASER MARKING

EOX

EOX is the new CO2 family for laser coding and marking applications.
Extremely reliable, Datalogic EOX family offers high quality permanent marking on the widest range of material (paper, cardboard, textiles, other organic and painted/coated materials). Its configuration offers extreme flexibility for the integration both in production line as well as in stand-alone systems.

- The EOX derives from the long experience in the production of high performance and high quality laser marking sources and completes Datalogic Automation Laser Marking Product range.

- Laser C-BOX is included in the package to allow safe and easy connectivity of the laser. Available ports include RS232, Ethernet and USB.

- The rack offers I/O port for Encoder and MOF control and Photocell

- The EOX 30W standard configuration offers integrated air cooling (100% duty), focal lens at 100mm and 2X Beam Expander. Aiming and focus red laser beams are also onboard.
The rack offers integrates embedded control board, electronics command and power supply

- Thanks to the embedded controller, marking configuration is extremely easy and only a keyboard and a display screen are requested. Connection to the laser is available through USB connection.

- Three different positioning of the scan-head - 0°, +90°, -90° -are available for optimal integration and installation into marking systems and production lines (factory setting).,

- Air lens protections guarantees lens integrity and thus improves marking performance.

- The innovative on-board marking platform Lighter & iMark guarantees unmatched marking performance.

EOX with C-BOX

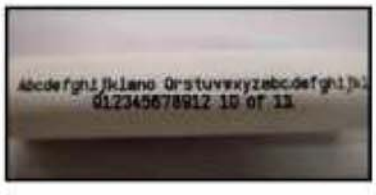
FEATURES & BENEFITS

- Complete air cooled industrial compact design
- Excellent marking performance
- Integrated diagnostics, easy communication and connectivity
- Flexible scan-head configurations
- Highly Customizable
- Extreme reliability and flexibility
- State of the art componenets
- Embedded controller and ts rking software (Lighter & iMark)

APPLICATIONS

This product has been developed to satisfy to requirements of the following reference applications:

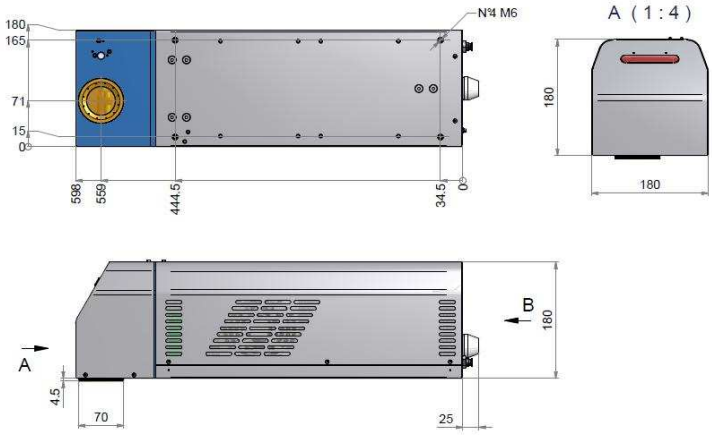
Coding and marking applications in the food, pharma, and electronics industries.



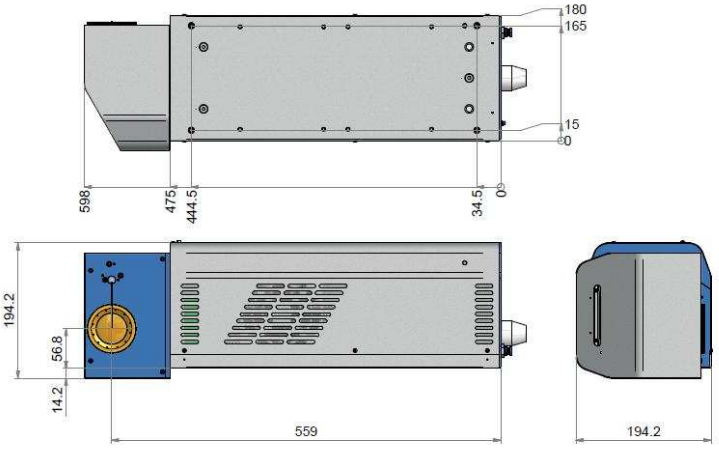
EOX 30W			
Wavelength		10, 6 µm	
Nominal Power		30W	
Laser tube		Sealed CO2	
Aiming beam		Class 2M red diode laser λ= 635	
Available f-theta lenses*		100 mm	200 mm
Marking area		70 x 70 mm	140x140 mm
Working distance		100 mm	200mm
Spot dimension		270 µm	370 µm
Communications		RS-232 – Ethernet – USB 2.0	
Integrated Power supply		90-230 VAC	
Cooling		Air cooled	
Operating Temperature		+10° to 35° C	
Weight	**Resonator**	17 Kilos	
	Rack	9 Kilos	

* Other focals available upon request

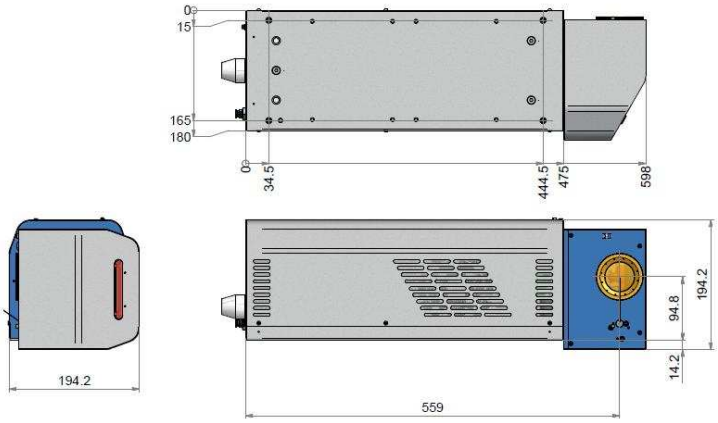
CONTROL UNIT (RACK)



RESONATOR



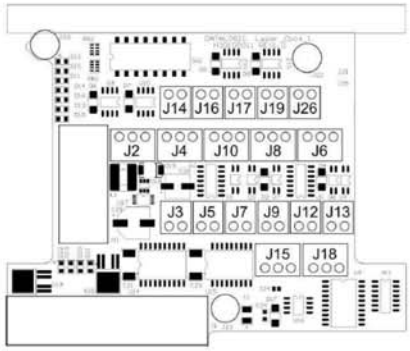
RESONATOR -90°



RESONATOR +90°

C-BOX

Laser C-BOX is included in the package to allow safe and easy connectivity of the laser. Available ports include RS232, Ethernet and USB.



SYSTEM CONNECTIONS C-BOX

MARKING KIT

The marking kit allows system integrators to easily interact with the laser marking system. The kit consists of two components: a PCI electronic board (iMarkPCI) that provides control signals to the laser and a powerful software (Lighter) that provides a graphical user interface to create marking layouts and automate the laser marking process through integration with legacy systems. The Lighter graphical editor creates and edits text strings, shapes, barcodes (e.g.128, EAN/UPC, 2/5, 3/9, GS1-128, RSS) and matrix codes (Datamatrix, QR codes,micro QR codes). It can also import logos in vectorial and raster formats.

Lighter marking kit guarantees key advances in marking software functions and applications such as marking on fly, array marking, grey tones marking, mechanical axis control, rotating axis control and others. Lighter is scriptable: this means that it can be easily integrated with legacy systems through a wide range of combinations of transmission media, protocols and architectures (master/slave, client/server, ...). Lighter is extensible: its scripting features can be extended through custom-developed plug-ins to deal with specific integration-related issues (custom components or protocols, patent protected algorithms, etc.).

TECHNICAL SPECIFICATIONS IMARK MARKING KIT

User interface	Languages	English, Italian, German, Spanish, French, Polish, Japanese, Traditional Chinese, Simplified Chinese, Korean
PC compatibility	Supported OS	Windows 7 / Vista / XP
	Board slot	PCI Express (1x)
Galvo performance	Repeatability	< 10um short term positioning accuracy
	Precision	< 50um galvo positioning precision
	Long term drift	< 100um long term positioning drift
	Speed	Up to 10.000 mm/s
Character type	Font	Original single line, True Type, Open Type, Type1, Type42
	Languages	European, Asian, Arabic, Cyrillic and Hindi languages supported
	Text type	Fixed text, date and time, serial number, batch code, fully customizable code
Code type	Barcode	2to5, Code39, Code128, UPC, EAN (GS1 ready)
	Stacked	PDF417, Code16K, RSS Family
	Matrixcode	Datamatrix, QRcode, microQR
Logo image	Types	HPGL, PLT, DXF, DWG, BMP, JPG, TIF, GIF, PNG
Integration	Marking capabilities	Standing, Rotary axis, On the fly (marking in motion)
	Mechanical Axis	Up to 4 mechanical axis driving capabilities (stepper motor)
	I/O	Up to 16 digital inputs and 16 digital output fully programmable
	Encoder	Dual line high resolution encoder input (on the fly option)

Schmidt Marking Systems
6151 W. Howard Street
Niles, IL 60714
800.323.1332 | 847.647.6126
www.gtschmidt.com