

NEW GENERATION, LARGER FIELD/SMALLER SPOT SIZE OF WORK
IN SEI LASER CUTTING/MARKING SYSTEM OEM LINE



- **I-Scan**, one of the models developed by SEI Laser in the **OEM Line**, is a cutting/marking system exploiting the new generation of galvo technology, with the largest field of work and the smallest spot-size. Specifically designed for converting and die-cutting applications in markets such as: textile, footwear, leather, paper, electronic, automotive (technical textiles), and lighting (LGP – Backlight for LED), on large format up to 2000x2000 mm.
- **I-Scan** can be equipped with a CCD Camera system, integrated in the scanning head to carry out working processes with extremely high accuracy of the laser beam positioning on the target object.
- **OEM line** is a product range designed by **SEI Laser** to easily integrate laser technology into production lines or vertical systems.



Easy opening - Flexible packaging



Kiss cutting - Perforation



Commercial print finishing



Artistic diecutting



Commercial print finishing

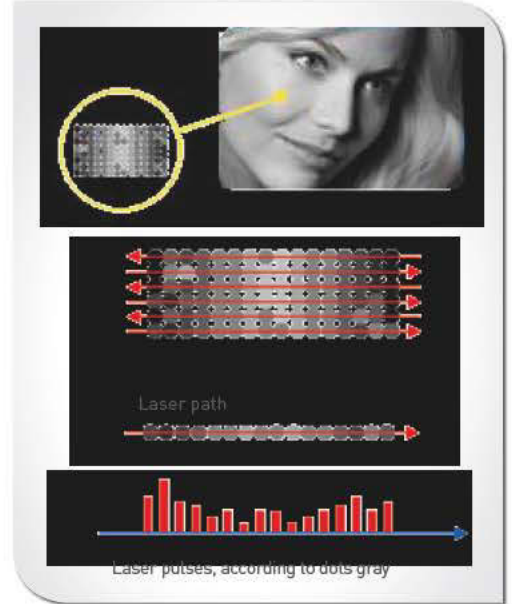
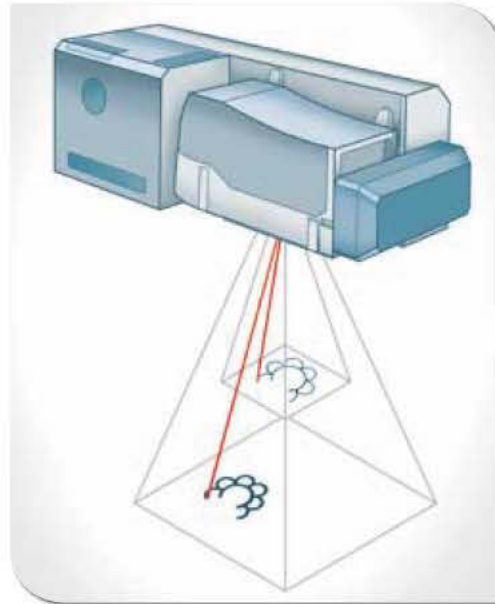


Leather - Garments

The so called "digital converting" market has expanded sharply in recent years. The right system to meet the highest demands of this growing market is **I-Scan** designed by SEI Laser. **I-Scan** is a laser marking/cutting system with CO₂ "sealed off" technology

operating in 10.600 nm developed to be easily integrated into production lines: the **OEM**.

Besides exploiting "sealed off" laser sources, **I-Scan** has particular features such as a 3 galvo interpolated axis optical

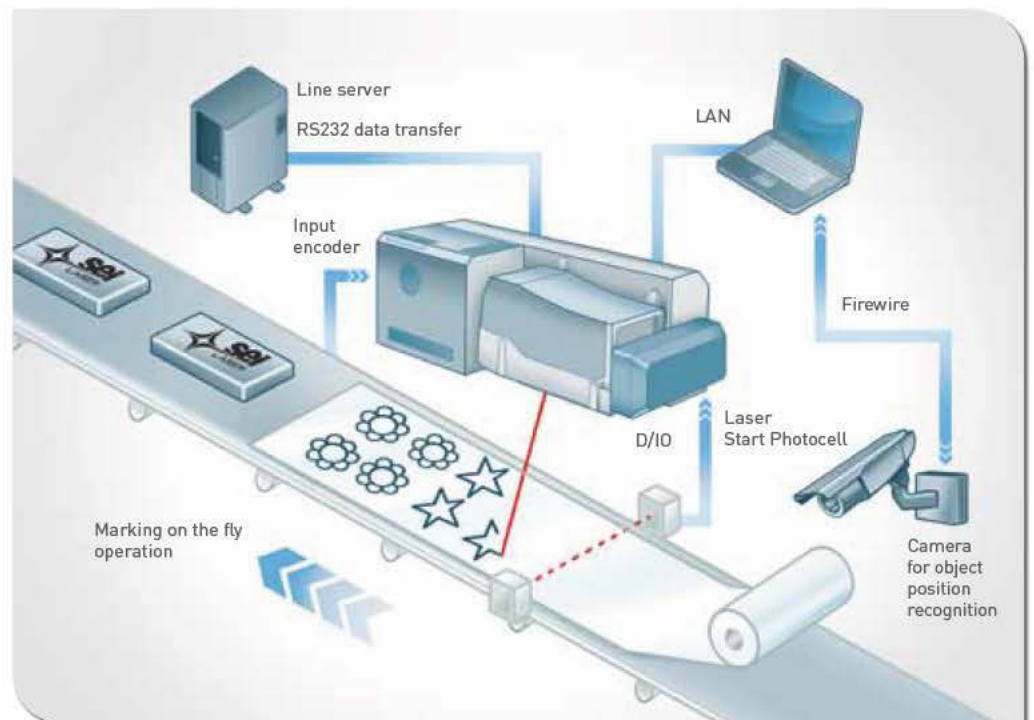


■ **WORKING AREAS**

Min. Area = 450 mm x 450 mm
 Working distance = 600 mm
 Spot diameter = ≈220 µm
 Max. Area = 2000 mm x 2000 mm
 Working distance = 2850 mm
 Spot diameter = ≈950 µm

■ **HI END GRAY-TONES CAPABILITY (LASER ENERGY MODE)**

To perform remarkable photorealistic bitmaps at high marking speed

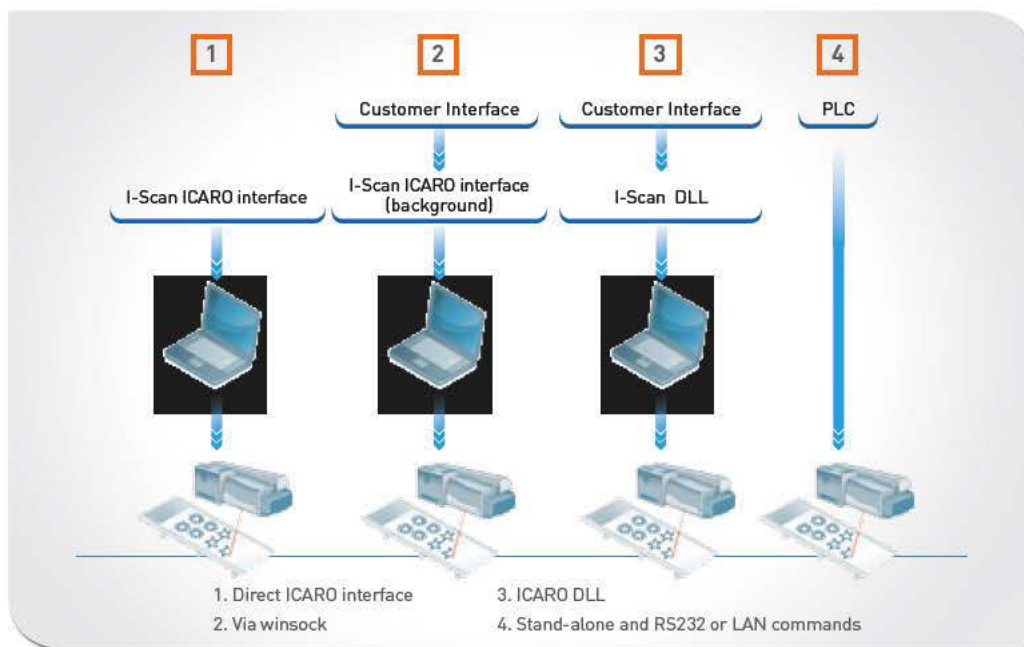


■ **MARKING ON THE FLY CAPABILITY**

Enhance any production line with maximum productivity

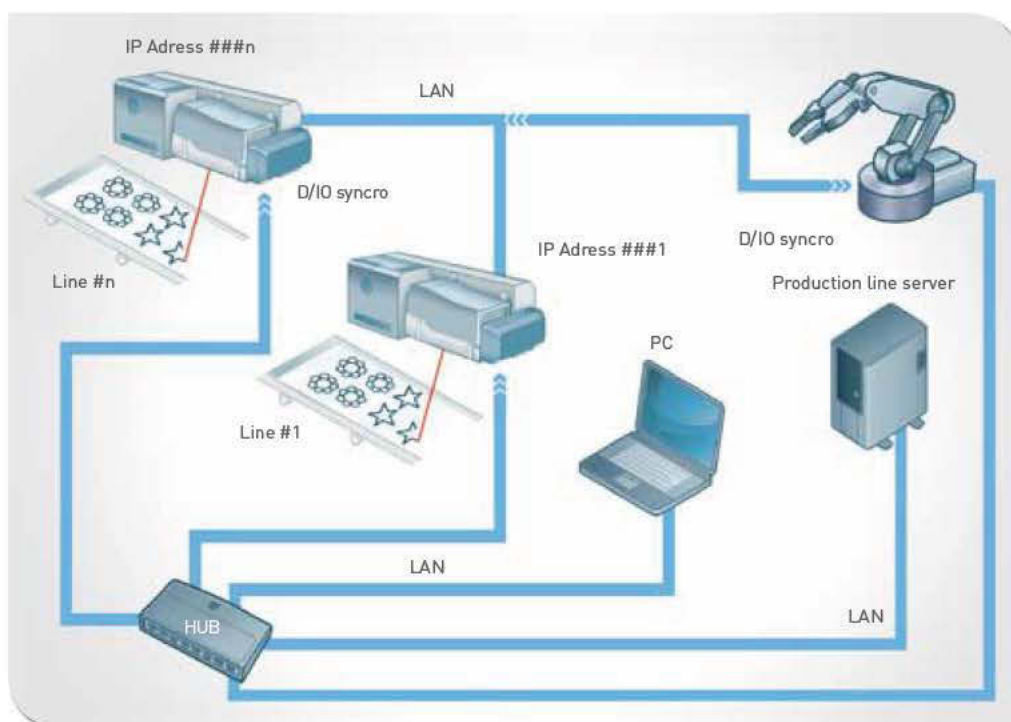
drive and "full digital" electronics. For high quality cutting, engraving and marking. I-Scan can be driven by any PC thanks to the user interface ICARO (Windows) or "stand alone" mode (without PC). The possibility of marking "on-the-fly" when installed on

a moving line, the presence of a complete set of digital I/O, serial ports RS 232/485 and network connection LAN10/100, make I-Scan the ideal marking/cutting tool for integration into production lines and automation of any kind.



■ FLEXIBLE MULTIPLE SOFTWARE INTERFACES

From full ICARO interface software to stand alone management control



■ PLUG & PLAY HARDWARE CAPABILITY

Easy and fast integration into existing or new production lines



Leather - Shoe industry



Leather - Fashion belts



Artificial leather



Textile - Garments



Textile - Denim



Technical textiles



Backlight (LGP Panel)



PMMA - Decoration

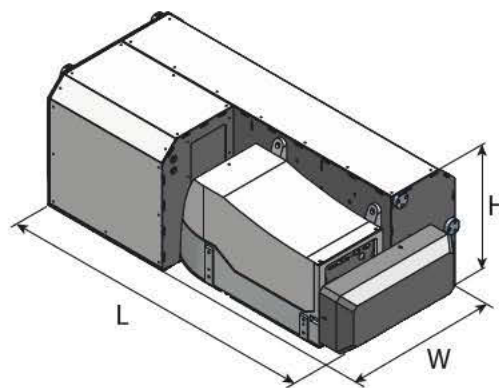


Wood - Decoration



Stone and ceramic tiles

Model	I-Scan 150 W	I-Scan 300 W	I-Scan 500 W
Wavelength [micron]	10,4-11,2		
Laser technology CO ₂	sealed-off with RF discharge excited laser source		
Nominal power [W]	135	250	450
Max. peak power [W]	330	700	1200
M ² factor	< 1.2		
Cooling	H ₂ O closed loop		
Protection	IP 54, ZnSe protective window, sealed-off optical path		
Safety norm compliance	2006/95/CE Low Voltage Directive 2006 /42/CE Machinery Directive 2004/108 Electromagnetic Compatibility Directive CEI EN 60825-1 Laser I-Scan is a class 4 product		



I-Scan 150 W	I-Scan 300 W	I-Scan 500 W
W = 552 mm	W = 677 mm	W = 677 mm
L = 1240 mm	L = 1610 mm	L = 1610 mm
H = 449 mm	H = 480 mm	H = 480 mm
250 kg	300 kg	350 kg

Main features

- Zero maintenance
- High reliability
- State of the art technology and performance
- Optimized for OEM integration in production lines
- Remote control and diagnostic module included
- Control electronics "full digital"
- Ability to operate in "stand alone" mode without PC
- Focus distance set via software (4 optical axis technology)
- Camera integrated in the scan-head, vision aligned to the laser beam
- Optical calibration of the work area
- Roto-traslation of the works files following the reference markers detected by the camera

Focal lengths reference

