



MULTISCAN

HE/VS

CO₂ laser marking systems



Who we are:


At Luxinar we have a singular focus:

Developing laser technology to enhance our world.

Like a laser that channels light into a single, powerful beam, we focus on improving the lives of our customers. We have a single manufacturing location. We have a single point of contact at our regional offices which are located in the same time zone and speak the same language as our customers. These allow us to create solutions to meet every single challenge.

Luxinar has been at the forefront of laser technology for over 20 years and is a leading manufacturer of sealed carbon dioxide (CO₂) laser sources in the range 5 to 1000W. To date, we have an installed base of over 18000 lasers worldwide in industrial applications environments.

Luxinar – INGENUITY AMPLIFIED



At your service:

Technical support

The Luxinar service team is comprised of technical specialists, passionate and knowledgeable about CO₂ sealed laser sources. Each team member has an in-depth understanding of laser technology, our products, as well as a wealth of experience of lasers working in a multitude of industries and environments.

Our dedicated, highly skilled and experienced service technicians located in Europe, China, Korea and the USA are on hand to provide the following support:

- Troubleshooting
- Spare parts identification
- Product documentation
- Integration support
- System maintenance

Applications laboratories:

Could a CO₂ laser be used to improve your manufacturing process? We can help you to find out by testing samples of your material or product.

Our applications lab facilities are open to both new and existing customers and OEMs. Our laboratories are well equipped to carry out a range of processes including cutting, marking, engraving, drilling, ablation and more.

We offer rapid sample turnaround times, detailed application reports, and complimentary advice from our experienced applications engineers. Whatever your process, we can help you to determine the best laser for your application; contact us to find out more.

We carry out application tests using your actual product samples. Guided by your objectives, we will try to replicate the conditions of your application as closely as possible in the lab. Upon completion, you will receive a detailed report outlining our findings, along with some laser-processed samples for your evaluation. Most application tests can be completed within 10 days.

“Developing laser technology to enhance our world”

MULTISCAN CO₂ LASER MARKING SYSTEMS

The MULTISCAN range of CO₂ laser marking systems offers an inkless method of applying alphanumeric text, QR codes, 2D and traditional barcodes, as well as complex graphics to a wide variety of materials; marks can be made on substrates including glass, plastics, wood, paper, card, painted metals, and more. The flexible software allows intelligent data to be placed anywhere within the specified scan area, and the system can mark stationary objects or moving products which need to be coded on the fly.

- Clean, ink-free production lines
- Static or on the fly marking, scribing and drilling
- Large scan area, up to 300x300mm
- High quality vector generation for precise rendering of graphics
- Low maintenance – fit and forget
- Available in three wavelengths – 10.6µm, 10.25µm and 9.3µm



MULTISCAN HE – laser coding in harsh environments

The MULTISCAN HE has been specifically developed for use in harsh environments, such as the beverage industry, where liquids or dust may be present. Its IP66 rating means that it can even work on production lines which must be regularly washed down in order to comply with strict hygiene regulations.

- IP66 rating to withstand harsh environments (humidity, dust, water)
- Up to 75000 bottles per hour
- 1.6m articulated arm for ease of siting
- Remote keyboard and display

MULTISCAN VS – a compact, mobile solution

The MULTISCAN VS provides a compact, mobile solution to laser coding. Designed as a fully integrated system, it incorporates the laser, beam delivery, cooling and control systems into a single compact unit. Its small footprint and articulated arm make for easy integration into existing production lines.

- Up to 1200 characters per second
- Fully integrated and self-contained unit
- Compact and mobile, with small footprint
- 1.2m articulated arm



Specifications of MULTISCAN range

	MULTISCAN HE	MULTISCAN VS
Laser	Single sealed CO ₂ RF-excited slab	Single sealed CO ₂ RF-excited slab
Maximum laser power	125W (10.6µm), 110W (10.25µm), 95W (9.3µm)	125W (10.6µm) , 110W (10.25µm), 95W (9.3µm)
Marking speed	Up to 1200 characters/sec	Up to 1200 characters/sec
Beam delivery	1.6m articulated arm *	1.2m articulated arm *
Marking head	Dual axis scanner	Dual axis scanner
Scan area	Up to 300x300mm	Up to 300x300mm
Cooling	Closed cycle/mains water (high duty applications) **	Integral (air to water) ***
Sealing	IP66	IP56
Voltage	230VAC ± 10%, single/bi phase 50/60Hz	230VAC ± 10%, single/bi phase 50/60 Hz
Software	Windows 10 embedded	Windows 10 embedded
Control	Remote display and keypad	Integral display and keypad ****
Weight	103kg (water cooled unit), 115kg (air cooled unit)	120kg

* Special options available

** Optional air to water heat exchanger

*** Optional closed cycle/mains water for high duty cycle applications

**** Optional remote display and keypad



Our customers are located worldwide. Typical application markets:

- Beverage industry – glass/plastic bottles
- Food industry – packaging – thin film perforation (easy tear), marking of cartons, PE tubes, printed labels, printed card, sweet wrappers, PP film wrapping, wrapping perishables
- Cosmetic industry – bottles, closures, labels, aerosol cans, tubes
- Automotive industry – security glass, windscreen wipers, door seals

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Class 4 Invisible laser radiation.

Avoid eye or skin exposure to direct or scattered radiation