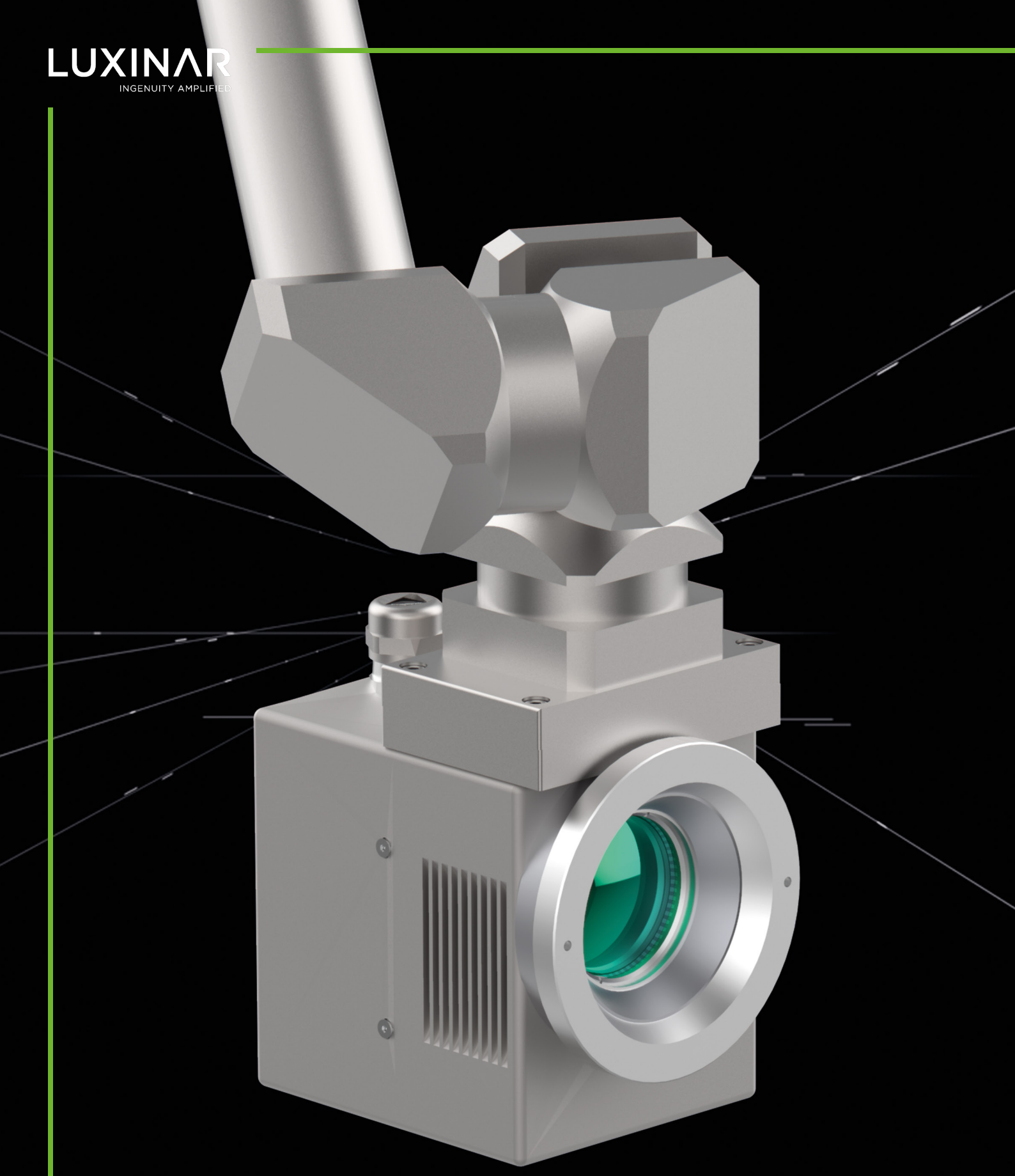
LUXINAR
INGENUITY AMPLIFIED



MULTISCAN®

# HE/HE 10i/HE 15i/HE 25i/VS

$CO_2$ laser 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. This allows us to create solutions to meet every single challenge – from heavy industry to delicate, high precision applications. We support the laser technologies of yesterday, focus on today's and pioneer those of tomorrow.

Luxinar has been at the forefront of laser technology for over 25 years and is a leading manufacturer of sealed carbon dioxide ($CO_2$) laser sources up to 1000W and ultrashort pulse laser sources. To date, we have an installed base of over 25000 lasers worldwide.

## $CO_2$ industrial lasers

Our industrially proven sealed laser sources are based on a diffusion-cooled slab principle that gives a high-quality, round, and symmetrical beam. Running costs are minimal, gas recirculation equipment such as vacuum pumps or pressure control systems are not needed, and there is no gas refill requirement during the operational lifetime of the laser.

Our versatile portfolio caters for many different configurations, allowing us to provide laser solutions tailored to customers' specific applications. System performance can also be configured to suit applications according to a list of options available.

## MULTISCAN® $CO_2$ laser systems

The MULTISCAN® range of $CO_2$ laser 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, cutting, scribing, drilling and surface processing
- Large scan area, up to 250x250mm
- 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
- Larger scan areas and long codes available on request


## Our customers are located worldwide.

Typical application markets:

- Beverage industry – glass/plastic bottles, hot glass marking
- Food industry – marking of cartons, PE tubes, printed labels, printed card, sweet wrappers, PP film wrapping and animal hides, kiss cutting self-adhesive labels, perforating plastic packaging film, scribing easy-tear openings for sachets and pouches
- Cosmetic industry – bottles, closures, labels, aerosol cans, tubes
- Automotive industry – security glass, windscreen wipers, door seals
- Hide marking

# 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 to comply with strict hygiene regulations.

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

# MULTISCAN® HE 10i/15i/25i

## modular laser processing solution

The MULTISCAN® HE 10i/15i/25i is a higher laser power alternative to the MULTISCAN® HE and consists of separate laser and control enclosures and a range of beam delivery options. It is ideally suited to harsh environments which require higher laser power, such as the textiles industry.

- 125W, 175W and 250W rated laser output powers
- Fixed or articulated beam delivery options
- Remote keyboard and display
- IP66 rated option (control cabinet)

# 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® HE 10i/15i/25i | MULTISCAN® VS |
|---|---|---|---|
| **Laser** | Single sealed $CO_2$ RF-excited slab | | |
| **Maximum laser power** | 95W (9.3µm)<br>110W (10.25µm)<br>125W (10.6µm) | 250W (10.6µm) [1 2]<br>175W (10.6µm) [1 2]<br>125W (10.6µm) [1 2] | <br>110W (10.25µm) [2]<br>125W (10.6µm) [2] |
| **Marking speed** | Up to 1200 characters/sec | | |
| **Beam delivery** | 1.6m articulated arm [3] | Fixed or articulated [3] | 1.2m articulated arm [3] |
| **Marking head** | Dual axis scanner [3] | | |
| **Scan area** | Up to 300x300mm | | |
| **Cooling** | Air cooled or water cooled | Water cooled | Air cooled or water cooled |
| **Sealing** | IP66 | IP66 option (control cabinet) | IP56 |
| **Voltage** | 230VAC ± 10%, single/bi phase 50/60Hz | | |
| **Software** | Wide range of field types (fixed text, date/time with offset, custom date, incremental counters, operator fields, logos, barcodes, bitmaps, composite fields, shift field and external fields) and control options (serial, digital, ethernet) | | |
| **User interface** | Remote display and keypad | Remote display and keypad | Integral display and keypad [4] |

[1] For 10.25µm contact your local representative

[2] For 9.3µm contact your local representative

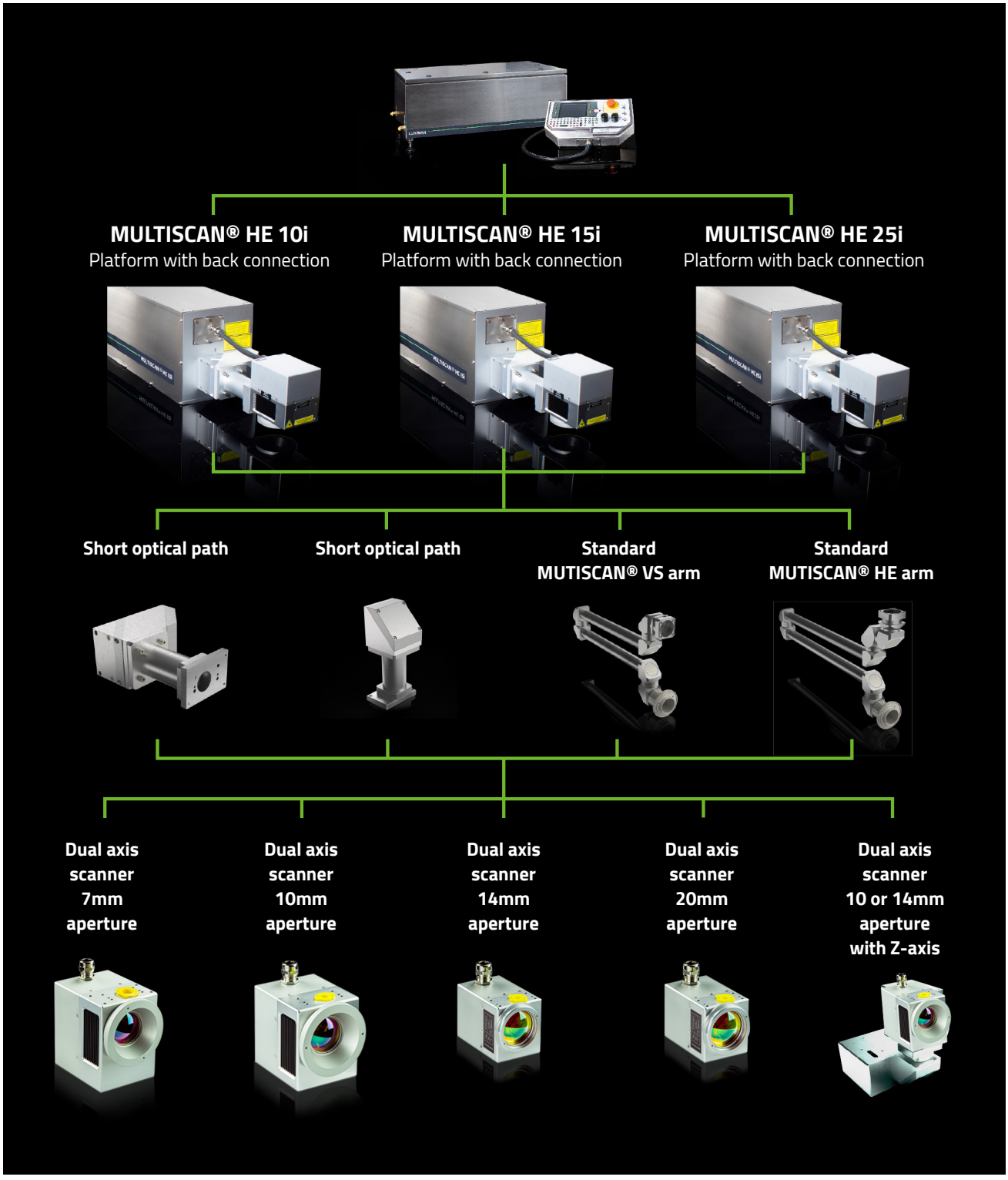
[3] Special options available

[4] Optional remote display and keypad

The short optical path beam delivery can be supplied in various orientations to suit the application.

# MULTISCAN® HE 10i/15i/25i options

## MULTISCAN® HE enclosure with remote panel




Notes:

- The short optical path beam delivery and scanner options can be supplied in various orientations to suit the application.
- Certain options may not be suitable for use with **MULTISCAN® HE 25i** depending on the application duty cycle.

Our global aftersales team

## Pre-sales technical support

**Could a laser improve your manufacturing process?**

Find out by sending us samples of your material or product to test in our labs.

Luxinar's engineers can carry out cutting, marking, engraving, drilling, scribing, ablation, and more to replicate your application in the lab. You'll receive your processed sample within 10 working days and a detailed report of our findings even sooner. You can also receive complimentary advice ranging from fume extraction to sample positioning.

Whatever your process, we can help you to determine the best laser for your application.

## Aftersales technical support

The Luxinar aftersales team comprises technical specialists, passionate and knowledgeable about laser sources. Each team member has an in-depth understanding of our laser sources and experience of lasers working in many industries and environments.

Our dedicated, skilled, and experienced aftersales technicians located in your time zone are on hand to provide the following support:

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

Our technical teams are based at Luxinar sites in China, Germany, Italy, Korea, the UK and the USA to give you laser support whenever you need it. Contact us at info@luxinar.com



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Registered in England: 3477444

ISO 9001 Quality Management

**Class 4 Invisible laser radiation.**
Avoid eye or skin exposure to direct or scattered radiation



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