Domino **D310**-Series
Laser Coders

Versatile and reliable solution for coding on a wide range of substrates

The all new compact edition of our successful CO_2 laser coders designed to fit into the smallest of spaces.

Domino. Do more.
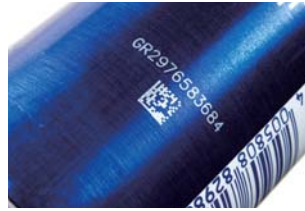
Compact lasers with built-in flexibility

D3I0-Series are flexible, compact, lightweight 30W laser coders, ideally suited to today's on-the-fly coding requirements on product packaging, and consumer and industrial goods.

D3I0-Series are typically used to create codes which include multiple elements such as text, shapes, pictures, dates, times, and machine-readable codes, using a variety of 1D and 2D code formats including QR codes.

Diverse range of applications

The D3I0-Series works across a wide range of substrates, with various coding area sizes and flexible label editing software to create a large variety of codes and layouts.

High code quality ideal for 2D Data Matrix coding

High-quality at fast line speeds

Special lasers for clear codes on PET and PP materials

Easy to integrate and use

◆ D3I0 is the smallest and lightest CO_2 laser in its class
◆ Built-in controller means no additional control box
◆ D3I0e has a vertical mounting option when space is at a premium
◆ LM Editor QS software with every laser provides an easy to use operator interface and label editor

Flexibility

◆ Three laser wavelengths code on a wide range of materials
◆ Six lenses for a wide range of marking field size
◆ Optional IP55 rating for tough environments
◆ Codes can consist of multiple lines and elements including text, shapes, images, dates, times, variable data, and many 1D and 2D code formats

Safe and compliant design

◆ Designed and tested to international EMC, electrical and laser safety standards
◆ Integral safety interlock design certified to ISO13849-1 Performance Level D (PLd)
◆ Supplied with laser guarding for safe installation and fume extraction for a clean working environment
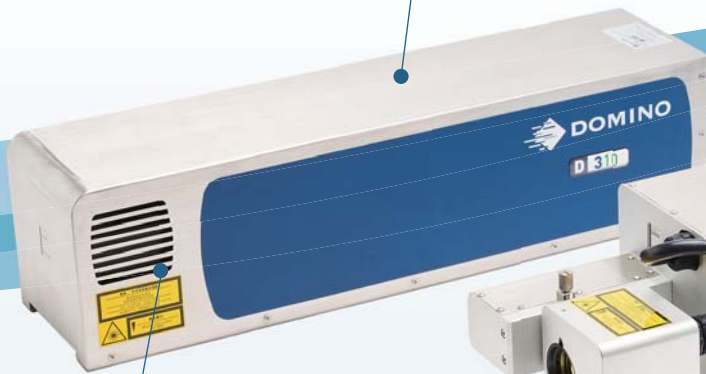
D310/310e – Laser Coding System Advantages

ControlPanel or IPC with LM Editor QS – easy to use and minimises errors

Integrated Domino DPX fume extraction provides a simple solution to maintain a clean working environment while optimising laser performance and lifetime
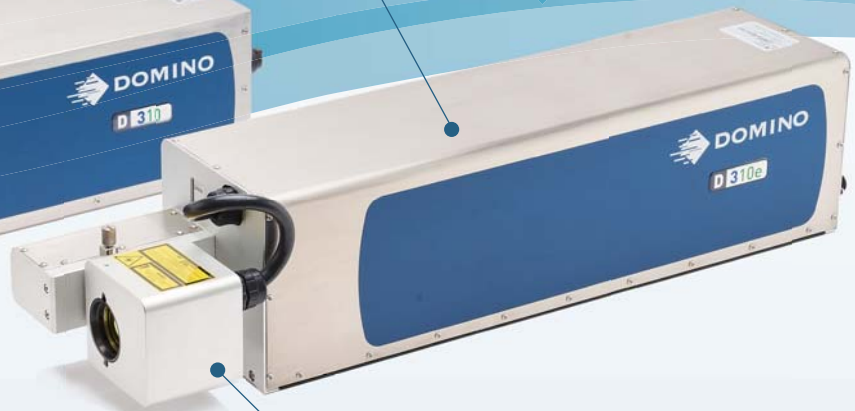
Optimised space utilisation - Integrated laser head and controller

IP rated – Reliable operation in harsh environments

Cooling fan design – ensure normal and efficient operation of the laser tube

Flexible mounting – 0 and 90 degree scan head positions

Easy installation and integration – full-length mounting rails

Domino. Do more.

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Technical Specifications

	D310			D310e		
Laser specification						
Laser tube type	Black	Red	Blue	Black	Red	Blue
Wavelength (µm)	10.6	10.2	9.3	10.6	10.2	9.3
Nominal laser power (W)	30	25	20	30	25	20
F-theta lens options (mm)	Focal length = 80, 100, 120, 150, 200, 250					
Laser class	Class 4					
Integrated aiming beam	No			Yes**		
Axial Option	No			No		
Coding features						
Characters per second	1000*					
Product line speed (m/min)	350*					
Number of lines of text	As many as desired*					
Fonts	Multi-language including Unicode					
Mark field (mm)	58x58 68x68 84x84 102x102 136x136 180x180					
User interface language	User selectable between English, simplified or traditional Chinese, Japanese, Korean, Thai, Vietnamese, and Indonesia Bahasa					
Operating system	Laser coder - embedded Linux	User interface - Windows® 10					
User interface software	LM Editor QS software					
Laser construction	Stainless steel and anodised aluminium					
Weight and dimensions (mm)	21kg 170x170x650			25kg 200x180x800		
Input and output						
Product detect inputs	NPN / PNP / 24V sensor					
Product speed detect	NPN / PNP / differential encoder					
Signal inputs	Laser start / mark control / print go / program in / user input					
Signal outputs	Laser ready / laser busy / fume extractor on / user output / beacon			Laser ready / laser busy / fume extractor on / user output / beacon / air control		
Communications	Ethernet – 1 x RJ45					
Power consumption (max)	1000VA					
Electrical requirements	100 to 230V 50–60Hz (tested to 85–265VAC 47–63Hz)					
Input current (max)	7A					
24V DC output -(max current)	0.7A					
Environment						
Laser system	Standard (fan cooled)			IP55 (compressed air cooled)		
Operating temperature	5°C to 45°C (41°F to 113°F)					
Operating humidity	90% non-condensing					
Options	Emergency stop, beacon, laser stand, fume extractor, laser guarding					
User interface options	10" Domino **ControlPanel** (IP65), 15" IPC touchscreen, or suitable Windows® 10 PC / HMI					

* Characters per second and production line speed depends on material surface and coding content
** Aiming beam not available with 80mm and 100mm lenses

D310

D310e

www.domino-printing.com