

Laser Marking System

Videojet® 7610

The 7610 fiber laser marking system delivers high contrast marking on robust plastic packaging, metal containers and other industrial products at ultra-fast line speeds.

Small in size yet powerful in performance, the Videojet 7610 100-Watt fiber laser helps enable manufacturers to mark crisp, clear codes at up to 600 m/min. to meet demands for increased throughput and more code content.

This laser marking system is specifically engineered for high speed beverage, pharmaceutical, and extrusion manufacturers marking on robust materials such as high-density Polyethylene (HDPE), Nylon, Polyvinyl Chloride (PVC), as well as aluminum and stainless steel metals.

Uptime Advantage

- Maximum performance and laser source life expectancy up to 100,000 hours (MTBF)
- Air-cooled laser source virtually eliminates maintenance intervals
- No wear parts minimizes downtime

Built-in productivity

- Optimized to mark-on-the-fly at lines speeds up to 600 m/min
- Large marking window provides more time to mark, increasing throughput and maximizing productivity

Code Assurance

- High precision scan head delivers consistent high quality codes across the entire mark window
- Permanent codes help assure product traceability and tamper-proofing

Simple usability

- Compact mechanical design with flexible configuration options help ensure a seamless fit into the packaging line

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Marking fields

Focal Length	100	163	254	420
Max. height/mm	107.4	181.9	267.8	498.5
Max. width/mm	84.7	142.2	221.7	366.5

Marking formats

Standard fonts (Windows® TrueType®/ TTF; PostScript®/ PFA, PFB; Open Type®/ OTF) and individual fonts, such as high-speed or OCR
Machine readable codes: ID-MATRIX (ECC100, 140, 200: 10x10 for square formats, 8x8 to 16x48 for non-square formats; ECC plain; QR code); BAR CODES (BC25/25i/39/39E/93/128; GS1-128; UPC_A; RSS14TR/ST/STC; RS LIM/EXP) Graphics/ graphic components, logos, symbols, etc. (dxf, jpg, ai, etc.)
Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents
Sequence and serial numbering; Automatic date, layer and time coding, real-time clock; Online coding of individual data (weight, contents, etc.)

Laser source

Ytterbium (Yb) pulsed fiber laser
Power class 100-Watt
Central emission wavelength: 1064nm (min: 1055nm, max: 1075nm)

Beam deflection

2 high-speed galvanometer scanners

Beam orientation

90-degree (standard) and straight-out (option)

Focusing (precision optics)

Focal lengths: f=100/163/254/420mm

Multiple operator interface options

Smart Graph software on PC; configurable in 12 languages (option)

Language capabilities*

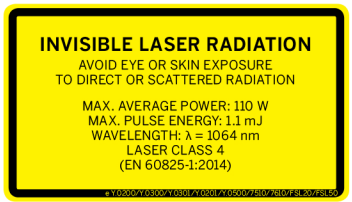
Brazilian Portuguese, Chinese, Czech, Danish, Dutch, English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish; interface dependent

Communication

Ethernet, TCP/IP and RS232, digital I/Os
Inputs for encoders and product detector triggers
I/Os for start, stop, external error, job select, trigger, trigger enable, encoder; system ready, ready to mark, marking, shutter closed, error, bad, good signals and machine/ operator interlocks

Integration

Direct integration into complex production lines via scripting interface
Integration via Ethernet and RS232 interface
Highly precise side guided height adjustment via dovetail joint



Electrical requirements

100-240 VAC (autorange), 700 VA, 1 PH, 50/ 60 Hz

Cooling system

Air cooled

Temperature/Humidity Range

10 - 35° C (50 - 95° F) and up to 40°C (104° F) with a duty cycle of 70%;
10 - 90%, non-condensing

Sealing and safety standards

Marking unit: IP54
Supply unit: IP22
LASER CLASS 4 product (acc. to EN 60825-1:2014)

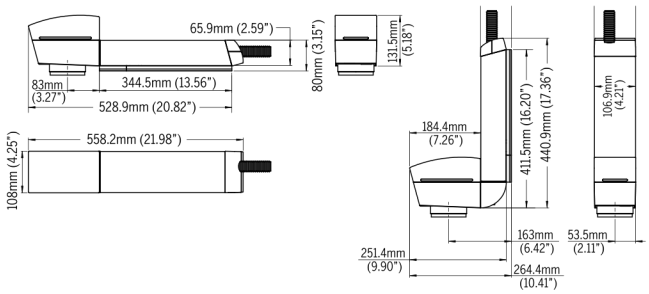
Approximate weight

Supply unit: approx. 25kg (55lbs.)
Marking unit: approx. 8kg (18lbs.)

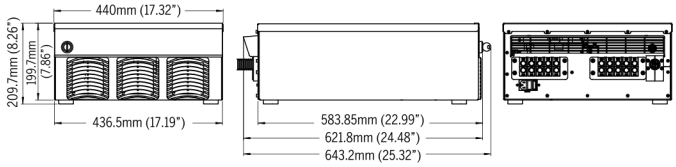
Applicable certifications

CE, TÜV/NRTL, FCC

Marking unit dimensions



Supply cabinet dimensions



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