



Laser Marking System

Videojet® 7510

The 7510 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 7510 50-Watt fiber laser helps enable manufacturers to mark crisp, clear codes at up to 600 meters per minute 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 (HDP), 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 (mean time before failure)
- Air-cooled laser source virtually eliminates maintenance intervals
- No wear parts minimizes downtime
- 90% more energy efficient compared to predecessor 100W Nd:YAG laser system

Built-in productivity

- Optimized to mark-on-the-fly at line speeds up to 600 m/min
- Large marking window provides more time to mark, increasing throughput and maximizing productivity
- On-screen diagnostics track causes of downtime and help troubleshooting to get the line back up and running quickly*

Code Assurance

- Optional CLARiTY™ Laser Controller offers built-in software features that help reduce operator errors and help ensure products are coded correctly
- 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 two beam delivery options simplify integration
- Intuitive color touchscreen interface option makes training and usability quick and easy

* With optional CLARiTY™ Laser Controller

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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 50-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)
CLARiTY™ Laser Controller

Language capabilities*

Arabic, Bulgarian, Czech, Danish, English, German, Greek, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovak, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese; 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

* With optional CLARiTY™ Laser Controller

INVISIBLE LASER RADIATION

AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED RADIATION

MAX. AVERAGE POWER: 110 W
MAX. PULSE ENERGY: 1.1 mJ
WAVELENGTH: $\lambda = 1055 - 1075$ nm
LASER CLASS 4
(EN 60825-1:2014)

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), 600 VA, 1 PH, 50/ 60 Hz

Cooling system

Air cooled

Temperature/Humidity Range

15 - 35° C (59 - 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: IP21
LASER CLASS 4 product (acc. to EN 60825-1:2014)

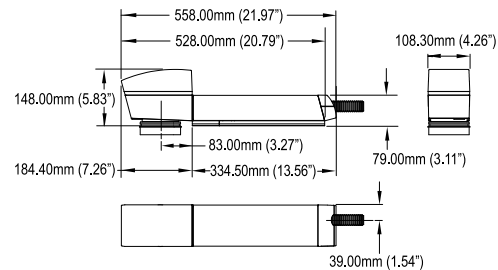
Measured weight

Supply unit: 18.8kg (41lbs.)
Marking unit: 7.6kg (17lbs.)

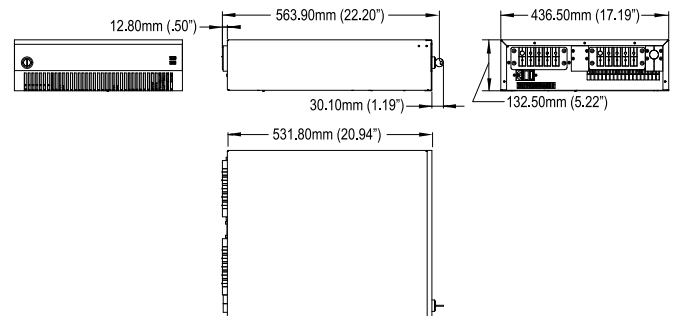
Applicable certifications

CE, TÜV/NRTL, FCC, EAC

Marking unit dimensions



Supply cabinet dimensions



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