



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 line 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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## Laser Marking System

### 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

#### 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:  $\lambda = 1064$  nm  
LASER CLASS 4  
(EN 60825-1:2014)

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