

Laser Marking System

# Videojet® 3640

Exceed current marking speed expectations on the production line with the Videojet 3640 laser marking system, engineered to process complex codes at highest speeds, with the industry's widest mark field.

Meet permanent coding needs today and in the future, with the high-speed capabilities of the Videojet 3640 CO<sub>2</sub> laser marking solution.

With print speeds of up to 2,100 characters per second and 150,000 products per hour, the 3640 is an ideal solution to help address highest speed and volume applications in the pharmaceutical, tobacco and beverage industries.



## Uptime Advantage

- Optimized for high-speed and high-volume production lines
- Maximize printer availability with long-life, air-cooled laser sources
- Optional VideojetConnect Remote Service allows access to Videojet experts to help improve productivity and troubleshoot potential issues

## Industrial Design

- Suitable for harsh environments where dust and humidity are a challenge and where the system is regularly washed down
- Available with an ingress protection level of IP65
- Designed for 24/7 operation in beverage, food, pharmaceutical and tobacco lines

## Code Assurance

- Optional CLARiTY™ Laser Controller offers built-in software features that help reduce operator errors and ensure products are coded correctly
- High-quality, permanent codes help assure product traceability and tamper-proofing
- High-resolution marking head delivers consistent, crisp codes

## Simple integration

- Compact, high-power laser marking system in the industry
- Easily integrate the laser marking system, even into production lines that have space limitations
- Widest marking field reduces the number of lasers that are required to cover multi-lane / wide web applications, reducing investment and running cost

# Videojet® 3640

## Laser Marking System

### Marking speed

Up to 2,100 characters/sec.<sup>(1)</sup>

### Line speed

Up to 15m/sec. (49ft/sec.)<sup>(1)</sup>

### Marking window

Approx. 30.8 x 38.2mm<sup>2</sup> to 601.0 x 439.8mm<sup>2</sup>

### Wavelengths

10.6µm, 10.2µm and 9.3µm

### Marking formats

Standard industrial fonts (Type 1 Windows® TrueType®) and Single line fonts  
Machine readable codes (OCR, 2D-matrix, etc.)  
Bar codes: BC25, BC25i, BC39, BC128, GS1-128, EAN13, UPC\_A, RSS14, RSS14 Truncated, RSS14 Stacked, RSS14 Stacked Omnidirectional, RSS Limited, RSS Expanded, etc.  
Graphics, logos, symbols, etc.  
Linear, circular, angular, reverse, rotate  
Sequential and batch numbering  
Automatic date, layer and time coding; real-time clock  
Dot mode enables marking 2D codes faster than traditional grid mode

### Laser tube

Sealed CO<sub>2</sub> laser, power class 60-Watt

### Beam deflection

Steered beam with digital high-speed galvanometer scanners

### Focusing

Focal lengths: 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches);  
63.5/ 85/ 100/ 150/ 200/ 300/ 351/ 400 mm (2.50/ 3.35/ 3.94/ 5.9/ 7.87/ 11.8/ 13.8/ 15.75 inches);  
100/ 150/ 200/ 300/ 351 mm (3.9/ 5.9/ 7.9/ 11.8/ 13.8 inches);  
400/ 500/ 600 mm (15.75/ 19.68/ 23.62 inches)

### Multiple operator interface options

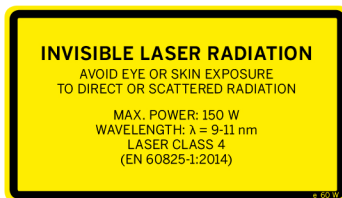
Handheld controller  
PC software  
TCS Touch Control Software  
CLARiTY™ Laser Controller  
Smart Graph Com

### Language capabilities<sup>(2)</sup>

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. Additional languages available with Smart Graph software.

<sup>(1)</sup> Maximum marking and line speed is application dependent

<sup>(2)</sup> With optional CLARiTY™ Laser Controller



### Communication

Ethernet, TCP/IP and RS232 optional  
Inputs for encoders and product detector triggers  
16 inputs / 11 outputs for start/stop signals, machine/operator interlocks, alarm outputs; in addition to the safety circuits  
Customer-specific solutions available

### Integration

Direct integration into complex production lines via scripting interface  
Flexible beam delivery options (beam extension unit/ beam turning unit)  
Detachable umbilical for simple integration; available in 3 lengths

### Electrical requirements

100-240 VAC (autorange), ~50/60Hz, 1PH, 1.15kW

### Cooling system

Air cooled

### Environment

Temperature 40-105° F (5-40° C)  
Humidity 10%-90%, non-condensing

### Sealing and safety standards

Supply Unit: IP54, optional IP65  
Marking Unit: IP54, optional IP65  
Optional safety module provides Performance Level d (PFL-d) in accordance to EN 13849-1  
IEC/EN 60825-1:2014

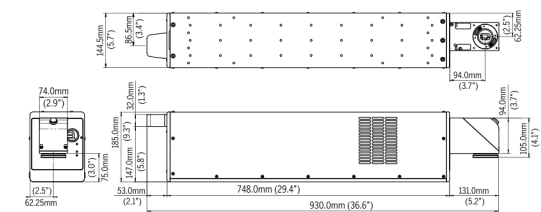
### Approximate weight

Supply unit: IP54/IP65 25.4lbs. (11.5kg)  
Marking unit: IP54 58.4 lbs. (26.5kg); IP65 59.5lbs. (27kg)

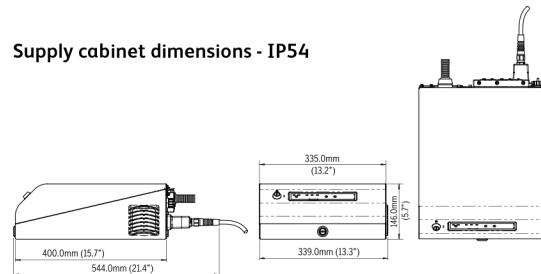
### Applicable certifications

CE, TÜV/NRTL, FCC  
Compliance (no certification required): ROHS, CDRH/FDA

### Marking unit dimensions - IP54 with SHC60c marking head



### Supply cabinet dimensions - IP54



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