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 CO2 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

Uptime Advantage

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
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Marking speed  
Up to 2,100 characters/sec.\(^1\)

Line speed  
Up to 15m/sec. (49ft/sec.\(^1\))

Marking window  
Approx. 30.8 x 38.2mm\(^2\) to 601.0 x 439.8mm\(^2\)

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\(_2\) 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\textsuperscript{TM} Laser Controller  
Smart Graph Com

Language capabilities\(^2\)  
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.

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); IP55 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

INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION  
MAX. POWER: 150 W  
WAVELENGTH: λ = 9-11 nm  
LASER CLASS 4 (EN 60825-1:2014)

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Call 800-843-3610  
Email info@videojet.com  
visit www.videojet.com

Videojet Technologies Inc.  
1500 Mittel Blvd. Wood Dale IL 60191 / USA