



Professional Packaging Systems

2010 S. Great Southwest Parkway
Grand Prairie, Texas 75051
www.ProPac.com

Contact

Our Packaging Experts
solutions@propac.com
888-318-0083

Videojet 3140 CO2 Laser Marking System

At a Glance

- 10-Watt CO2 laser marking system for moderate line speeds
- Print speeds up to 2000 characters second
- For simple and complex code requirements on a range of substrates



Pricing

Call us at 888-318-0083

Many options are available. Complete details will need to be finalized to determine requirements and final system costs. Work with your Pro Pac representative to build this machine to your specifications.

10-Watt CO2 Laser Marking System for Moderate Line Speeds

The Videojet 3140 10-Watt CO2 laser marking system is engineered to offer all of the performance features found in higher wattage Videojet lasers, but with a power source better matched for moderate line speed applications.

With print speeds up to 2000 characters second, and line speeds up to 900m per minute, the Videojet 3140 laser system is ideal for both simple and complex codes.

For simple and complex code requirements on a range of substrates including paperboard, glass, painted metal, paper labels, PET and other plastic materials.

The 3140 offers flexibility to meet a broad range of applications in many food, beverage, cosmetics and pharmaceutical operations.

Benefits

Uptime Advantage

Maximum performance and extended laser source life expectancy up to 45,000 hours through optimized total power output.

Air-cooled laser source virtually eliminates maintenance intervals.

Line set up wizard, available with optional CLARiTY Laser Controller, aids fast product changeovers, eliminating set up trial and error and minimizing planned downtime.

Built-In Productivity

Large marking window offers optimally matched applications for higher throughput.

On-screen diagnostics tracks causes of downtime to help troubleshooting to get the line back up and running quickly. (optional CLARiTY Laser Controller)

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 Usability

Flexible integration solution with 32 standard beam delivery options.

Quick set up via detachable umbilical cable for easy routing on the line and simple-to-use accessory connections.

5 interface options with a choice of networking communications to match preferred workflow.

Please [contact Pro Pac](#) or call 888-318-0083 for your printing and date-coding equipment.

Specifications

Specification	Value
Laser Tube	CO2
Maximum Power	10W
Laser Cooling	Air cooled
Maximum Print Speed	2000 characters/sec
Maximum Line Speed	900 m/min (2,940 ft/min)
Environmental Protection	IP54, 65
Beam Output	Steered beam
Laser Source Expected Life	45,000 hours
Laser Wavelength Options	10.6 µm, 9.3 µm
Focal Distance Options	64 mm (2.50 in) – 400 mm (15.75 in)
Maximum Mark Window	485 x 351 mm (19.09 x 13.81 in)
Standard I/O Connectivity	Internal terminal connections
Standard User Interface	Handheld
Optional User Interface	PC, CLARITY Laser Controller, TCS, Smart Graph Com
Umbilical	Detachable, 3 lengths
Plant Air Used	No
Certifications / Approvals	CE, TÜV/NRTL, FCC Compliance (no certification required): ROHS, CDRH/FDA

More Specifications

Marking Speed	Up to 2,000 characters/sec.
Line Speed	Up to 15 m/sec. (49ft/sec.)
Marking Window	Approx. 30.8 x 38.2mm to 350.8 x 294.7mm
Wavelengths	10.6µm and 9.3µm

Marking Formats	<p>Standard industrial fonts (Type 1 Windows® TrueType®) and Single line fonts</p> <p>Machine readable codes (OCR, 2D-matrix, etc.)</p> <p>Bar codes: BC25, BC25i, BC39, BC128, GS1-128, EAN13, UPC_A, RSS14, RSS14 Truncated, RSS14 Stacked, RSS14 Stacked Omnidirectional, RSS Limited, RSS Expanded, etc.</p> <p>Graphics, logos, symbols, etc.</p> <p>Linear, circular, angular, reverse, rotate</p> <p>Sequential and batch numbering</p> <p>Automatic date, layer and time coding; real-time clock</p> <p>Dot mode enables marking 2D codes faster than traditional grid mode</p>
Laser Tube	Sealed CO2 laser, power class 10-Watt
Laser Beam Deflection	Steered beam with digital high-speed galvanometer scanners
Focusing	<p>Focal lengths: 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches);</p> <p>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)</p>
Operator Interface Options	<p>Handheld controller</p> <p>PC software</p> <p>TCS Touch Control Software</p> <p>CLARiTY Laser Controller</p> <p>Smart Graph Com</p>
Language Capabilities (with CLARiTY Laser Controller)	<p>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;</p> <p>interface dependent.</p> <p>Additional languages available with Smart Graph software</p>
Communication	<p>Ethernet, TCP/IP and RS232 optional</p> <p>Inputs for encoders and product detector triggers</p> <p>16 inputs / 11 outputs for start/stop signals, machine/operator interlocks, alarm outputs; in addition to the safety circuits</p> <p>Customer-specific solution available</p>
Integration	<p>Direct integration into complex production lines via scripting interface</p> <p>Flexible beam delivery options (beam extension unit/ beam turning unit)</p> <p>Detachable umbilical for simple integration; available in 3 lengths</p>
Electrical Requirements	100-240 VAC (autorange), ~50/60Hz, 1PH, 0.40KW
Cooling System	Air cooled

Environment	Temperature 40–105° F (5–40° C) Humidity 10%–90%, non-condensing
Sealing and Safety Standards	Supply unit: standard 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
Weight	Supply unit: IP54/IP65 25.4lbs (11.5kg) Marking unit: IP54 28.7lbs (13kg); IP65 30.9lbs (14kg)
Applicable Certifications	CE, TÜV/NRTL, FCC Compliance (no certification required): ROHS, CDRH/FDA

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