



Laser Marking System

Videojet® 3130

The 3130 is a 10-Watt CO₂ laser engineered for packaging professionals that require high quality marking at moderate line speeds.

Low power does not mean low performance. The 3130 10-Watt offers 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 1200 characters/sec and line speeds of up to 600 m/min, the 3130 addresses both simple and complex code requirements for a range of substrates including paperboard, glass, painted metal, paper labels, PET, and other plastic materials. The flexibility to meet a broad range of applications makes it an ideal solution for many food, beverage, cosmetics and pharmaceutical packaging operations.



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 aids fast product changeovers, eliminating set up trial and error and minimizing planned downtime *

Built-in productivity

- Large selection of mark window options offers optimally matched applications for faster marking
- 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, to 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

- Most flexible integration solution with 32 standard beam delivery options
- Quick set up and easy redeployment via detachable umbilical cable for easy routing on the line and simple-to-use accessory connections
- 4 interface options plus a choice of networking communications to match your preferred workflow

* With optional CLARiTY Laser Controller

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Marking speed

Up to 1,200 characters/sec.⁽¹⁾

Line speed

Up to 10 m/sec. (33 feet/sec.)⁽¹⁾

Marking window

Approx. 25x20 mm to 485x351 mm

Wavelengths

10.6µm 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, BC251, 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 CO₂ laser, power class 10-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)

Multiple operator interface options

Handheld controller
PC software
CLARITY® 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

Communication

Ethernet, TCP/IP and RS232 optional
Inputs for encoders and product detector triggers
3 inputs/ 7 outputs for start/ stop signals, machine/ operator interlocks, alarm outputs;
with additional I/Os available
Customer-specific solution 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, 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: IP32, optional IP54 and IP65
Marking Unit: IP54, optional IP65
Optional safety module provides Performance Level d (PFL-d) in accordance to EN 13849-1
IEC/EN 60825-1:2007

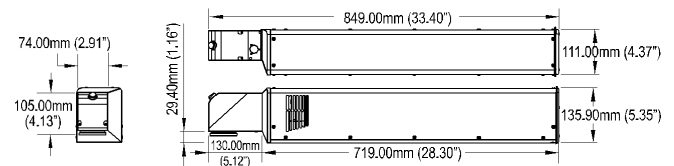
Approximate weight

Supply Unit (IP32/IP54): 16 lbs. (7 kg)
Marking Unit (IP54): 30lbs (13.6kg)

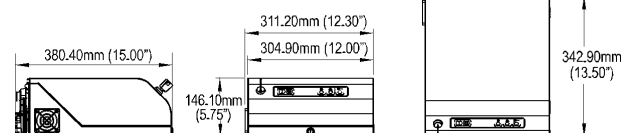
Applicable certifications

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

Marking unit dimensions - IP54 with SHC60 marking head



Supply cabinet dimensions - IP32

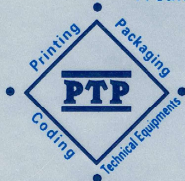


⁽¹⁾ Maximum marking and line speed is application dependent

⁽²⁾ With optional CLARITY Laser Controller

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