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Videojet 7810 UV Laser Marking System

At a Glance

- 2-Watt Ultraviolet wavelength laser marking
- Permanent, high-contrast marks on HDPE/LDPE, other plastics, glass, Tyvek
- Marks up to 250 products per minute with no code distortion on rotary devices

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.

UV Laser Marker Delivers Permanent Codes for Product Traceability

The Videojet 7810 2-Watt UV laser marking system delivers high-contrast cold marking permanent codes.

The 7810 UV laser marking system is specifically designed to provide product lifetime track and trace for pharmaceutical, medical device and cosmetic manufacturers. Direct marking of permanent codes helps prevent the risk of counterfeiting or manipulation to product identification.

Packaging operations that require high-quality, traceable codes for camera readability can rely on the Videojet UV 7810 laser coder to meet industry regulatory requirements, such as the U.S. Food and Drug Administration's Unique Device Identification.

Prevent the risk of counterfeiting and meet industry regulations with crisp, vision readable 2D codes on white HDPE and LDPE plastic, and other synthetic fiber materials such as Tyvek.

High-Speed Crisp Codes on HDPE and LDPE Materials

The Videojet 7810 applies crisp 2D, alphanumeric and other typical codes at high speeds onto high-density polyethylene fibers such as Tyvek and commonly used rigid plastic materials such as white HDPE and LDPE.

Videojet 360° Arc Compensation Software helps ensure the same mark quality can be achieved on rotational devices as well as straight line applications.

Benefits

Uptime Advantage

Zero consumables to replace during day-to-day operation keeps lines running longer.
Maximum laser availability with air-cooled laser source that virtually eliminates unscheduled downtime.
No daily mechanical maintenance procedures help increase uptime.

Engineered for High Performance

High throughput on both rotary and linear applications up to 250 products per minute.
UV wavelength enables high speed marking-on-the-fly of HDPE/LDPE packaging to increase efficiency.
Mark quality, vision readable 2D codes up to 5.0m/sec.
360° Arc Compensation Software feature enables consistent high quality marks on rotational devices, virtually eliminating distortion.
Repeatable high contrast color change for top grade vision readability on white HDPE/LDPE.

Flexibility and Simple

Optional SmartGraph software allows for simple set-up of Arc Compensation parameters.
Coding processes are simplified through the ability to mark any code, in any orientation, anywhere on the product.
UV wavelength marks high resolution and high contrast onto HDPE/ LDPE without the need for additives and revalidation of packaging materials.

Please contact Pro Pac or call 888-318-0083 for your printing and date-coding equipment.

Specifications

Specification	Value
Laser Tube	Pulsed Nd: YVO4 laser (Vanadat), diode-pumped
Maximum Power	2-Watt
Laser Cooling	Air cooled
Maximum Print Speed	500 characters/sec
Maximum Line Speed	984 ft/min (300 m/min)
Environmental Protection	Marking unit IP20 /Supply unit IP21
Beam Output	Steered beam
Laser Source Expected Life	Up to 15,000-25,000 hours
Laser Wavelength Options	355 nm
Focal Distance Options	SS10 and SS7 with four focusing optics (f□=103□mm/160□mm/214□mm/511□mm)
Maximum Mark Window	From 64□x□76□mm2 (SS10, f = 103□mm) to 375□x□375□mm2 (SS10/SS7, f□=□511□mm)
Standard I/O Connectivity	Ethernet
Standard User Interface	Smart Graph (on optional external Windows 7 PC)
Plant Air Used	No
Certifications / Approvals	CE, CB, TÜV/NRTL

More Specifications

Marking Fields	64x76 mm² (SS10, f=103 mm) - 375x375 (SS07/SS10, f=511 mm)
Marking Heads	SS10 and SS7 with focusing lenses: f=103 mm/160 mm/214 mm/511 mm
Marking Speed	Up to 500 characters per second; 984 ft/min (300 m/min)
Laser Source	Pulsed Nd: YVO4 (Vanadat) Power class 2-Watt Central emission wavelength: 355nm
Laser Beam Deflection	2 high-speed galvanometer scanners
Laser Beam Orientation	90-degree
User Interfaces	Smart Graph software on PC; configurable in 12 languages
Language Capabilities	Chinese, Czech, Dutch, English US, French, German, Italian, Japanese, Polish, Portuguese, Russian, and Spanish
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 mounting with T-nut baseplate
Electrical Requirements	100 - 240 VAC (autorange), 50/60 Hz
Environment	50 - 104° F (10-40°C) (non-condensing)
Sealing and Safety Standards	Marking unit: IP20 Supply unit: IP21 Laser Class 4 product (acc. to IEC / EN 60825-1:2014)
Weight	Supply unit: 44 lbs. (20kg) Marking unit: 106 lbs. (48kg) max, without F-Theta lens
Applicable Certifications	CE, CB, TÜV/NRTL

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