Videojet® 7920 UV Laser Marking System

Equip your production line with confidence

Optimized operation

Flexible configuration for easy integration

Code quality confidence

SmartFocus™

Easy-to-use Laser Solution

Videojet **SmartFocus™** technology enhances your operations by reducing manual intervention while maintaining packaging integrity, helping you achieve your automation goals.

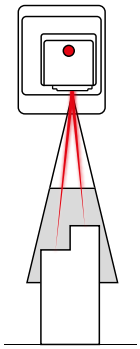
- Eliminate manual focus adjustments
- Enhance mark/code quality
- Reduce substrate perforation risks
- Minimize operator errors and labor needs
- Decrease downtime and scrap
- Boost safety and productivity

Achieve more with Videojet SmartFocus™ technology

Setting up and adjusting your 7920 laser marking system is fast and easy with Videojet SmartFocus™ technology. Take advantage of the exceptional mark quality and consistent performance achievable with this innovative technology.

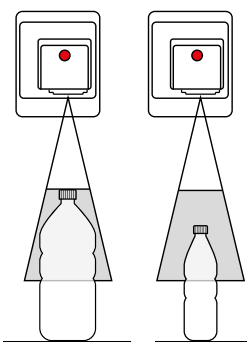
Multi-level surface marking

Mark different-sized products in the same marking field. You can save time and more easily manage complex marking.



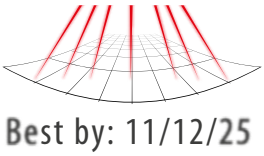
Auto-adjustable focal distance

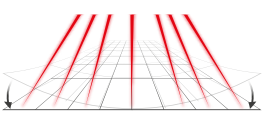
Automatically adjusts the laser focal distance to simplify changeovers and accommodate for packaging surface variations without the need for manual adjustments.



Uniform flat field correction

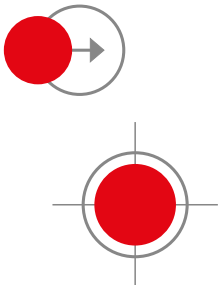
Maintains exceptional print quality with a uniform spot-size marking across the entire field, even on curved surfaces, with no degradation at the edge.



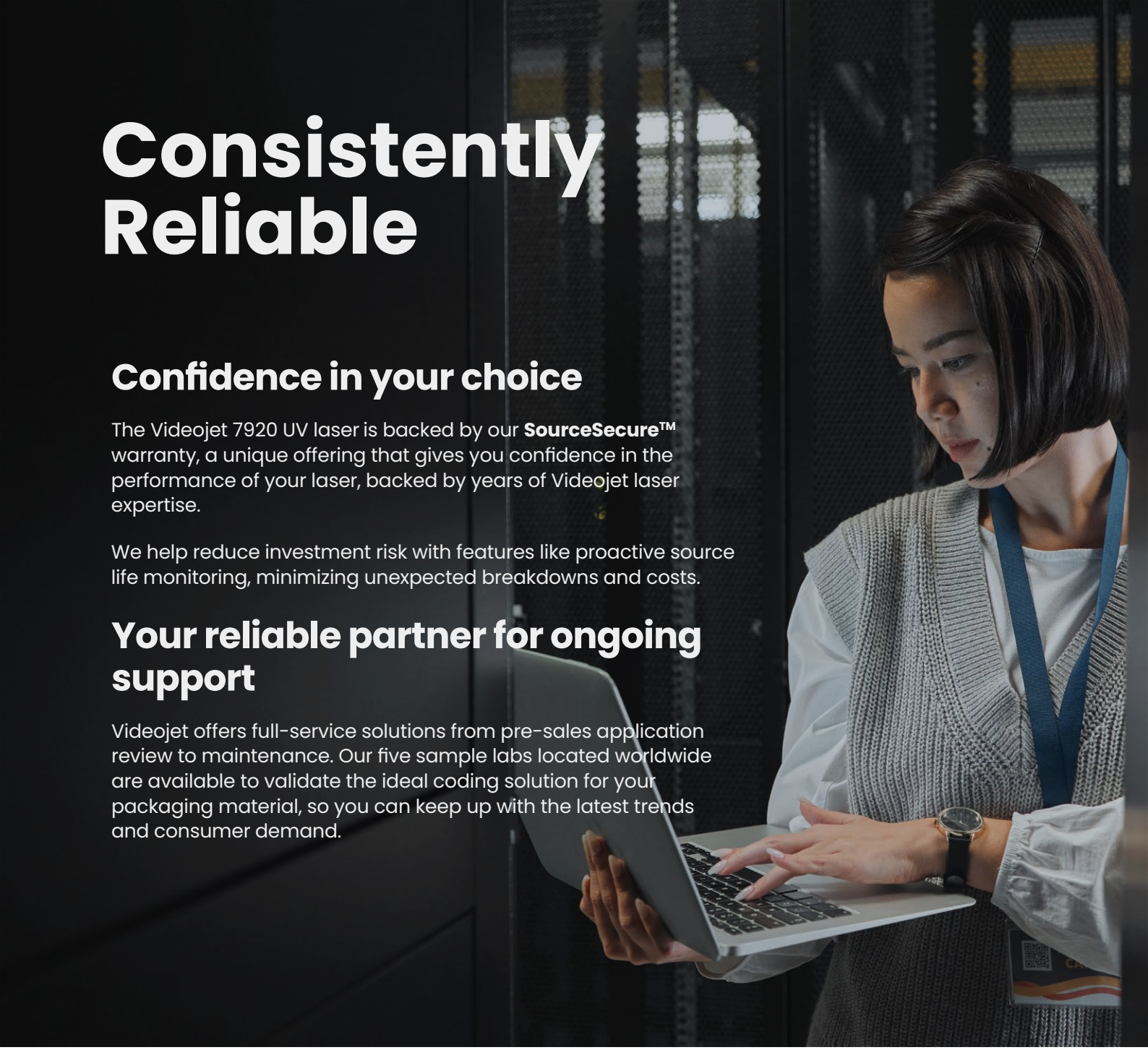


Pilot beam focus finder

Confirms if your laser is focused and positioned correctly, so you can speed up your setup time. Supports setup of the right working distance and alignment.



Consistently Reliable



Confidence in your choice

The Videojet 7920 UV laser is backed by our **SourceSecure™** warranty, a unique offering that gives you confidence in the performance of your laser, backed by years of Videojet laser expertise.

We help reduce investment risk with features like proactive source life monitoring, minimizing unexpected breakdowns and costs.

Your reliable partner for ongoing support

Videojet offers full-service solutions from pre-sales application review to maintenance. Our five sample labs located worldwide are available to validate the ideal coding solution for your packaging material, so you can keep up with the latest trends and consumer demand.

We take safety seriously

- Expert Videojet laser support guides you to the ideal laser setup with safety as a top priority.
- With Videojet SmartFocus™ technology, we reduce the level of operator interaction with the laser, offering greater peace of mind and lowering liability risks.
- By always adjusting the same and consistent focal diameter across the marking field, Videojet SmartFocus™ technology reduces the risk of perforation of substrates like film or foil.
- Class 4 lasers are industrial lasers and can be dangerous without proper protection. Videojet can offer expertise, knowledge, and accessories (such as beam shielding) to aid in creating a safe work environment for your associates.
- To further help ensure your team's safety, Videojet fume extraction solutions help provide a safer working environment.

Built to Adapt

Tailor the system to your specific needs and requirements

Videojet beam turning units enable flexible integration into any setup, including tight line spaces and existing machines with limited space, making it easier to adapt to your application requirements. By reducing the need for packaging system modifications, the Videojet 7920 is a more cost-effective solution compared to many other UV systems and other customized marking solutions available today.

- **Compact unit size**
- **Beam turning units allow 360-degree rotation**
- **Detachable umbilical at the marking unit**

The Videojet 7920 is engineered to meet IP54 environmental protection as standard. Optional IP65 configuration is designed to provide additional environmental protection for peace of mind that your laser will perform in challenging industrial conditions.

Born digital solutions for seamless connectivity and integration

The 7920 can be easily integrated into your operation with enhanced cellular and Wi-Fi connectivity* and remote interface control. The system is also designed for seamless integration into production and control networks using EtherNet/IP™ and ProfiNet® protocols.

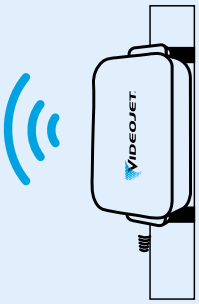
- **Minimize IT time and investment**
- **Improve printer availability**
- **Boost overall equipment efficiency**
- **Reduce challenges with integrating machines into existing production environments**

Easy and secure connectivity allows for wireless communication, automatic software updates, and reduced installation time.

**Subject to availability in your country*

Wi-Fi and cellular communication

Located in an access box, Wi-Fi and cellular connection reduce IT workload and offer seamless software updates and fewer service interactions. They also improve overall equipment efficiency and access to more information.



Remote Interface control

Webserver capability allows you to access your laser via supported web browsers on host computers. Up to five web server sessions are allowed for each laser.

- Help reduce the number of HMIs on your line
- Allow for easy control of the whole system


7920 user interface


Host machine HMI


Tablet

Designed with Expertise

The **Videojet 7920 UV laser** marking system delivers superior codes on classic UV laser applications such as white HDPE containers, as well as products with enhanced potential for recyclability and other sustainability features, such as mono-materials, helping manufacturers meet the demands of eco-conscious consumers and regulators. With speeds up to 2,000 characters per second and excellent code quality, the 7920 is backed by rigorous testing and expert Videojet service.

Optimized operation

Videojet SmartFocus™ technology auto-adjusts the focal distance, eliminating manual focus adjustments and improving marking quality across various sizes and substrates.

Flexibility

The 7920's compact design, featuring one of the smallest UV laser footprints in the industry, delivers flexibility for a wide range of applications.

Confidence in code quality

Videojet SourceSecure™ warranty offers a five-year source warranty, reflecting our confidence in the 7920's quality and durability while assuring protection of your investment for years to come.

Seamless integration

Stay connected with enhanced cellular and Wi-Fi connectivity for secure remote access and analytical capabilities. Compact and flexible beam turning units adapt to production environments with tight spaces.

Support when you need it

Extensive pre-sale and sales support, coupled with sampling capabilities, help ensure you select the right solution for your application. Expert installation and service support help maximize your productivity.

Challenge-ready

Available in both IP54 and IP65 configurations, the 7920 delivers reliable performance in tough industrial conditions.

Engineered to help you meet your sustainability objectives.

As the packaging industry embraces sustainability, we support your shift to mono-materials, efficient production, and regulatory compliance without compromising quality or performance. The Videojet 7920 is perfect for manufacturers aiming to:

- Use flexible films and certain mono-materials that are designed to be more easily recycled
- Eliminate consumables like inks and thermal transfer ribbons

Videojet laser marking systems are virtually maintenance-free, enhancing machine availability, helping you achieve OEE goals and reducing waste.

Allowing you to mark more products quickly and efficiently, proprietary Videojet galvo control boosts speeds and reduces energy consumption.

Videojet Remote Service (VRS)

Drive productivity and uptime with the power of data and connectivity

Videojet Remote Service helps reduce unexpected downtime by delivering timely alerts, prompting preventive maintenance actions. Boost productivity with VRS through its predictive and proactive support capabilities for the lifetime of your marking system. Using VRS allows for remote software updates, ensuring that you always benefit from the latest technology.

VRS allows for 24-hour remote visibility of your production	Proactively plan maintenance to save time	Improve OEE and uptime

Videojet LifeCycle Advantage

The Videojet 7920 leverages advanced analytics, remote connectivity, and the largest service footprint in the industry to maintain our uptime commitment, improve operations over time, and help you recover in minutes from unplanned interruptions.

Improve

- Leverage data across a fleet of connected printers to continually optimize printer performance
- Remote service data can be used to identify operational improvements and help you run your plant better

Maintain

- Get optional on-demand remote training at the touch of a button
- Service packages for periodic preventive maintenance help keep your printer in peak condition
- Configurable remote alerts notify customers of pending faults and possible issues to allow proactive resolution between production shifts

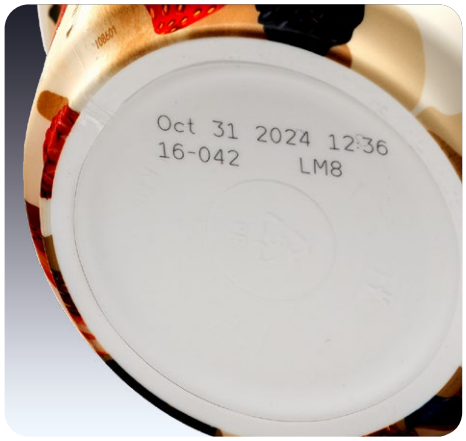
Recover

- Many repairs can be resolved with the assistance of the Videojet team of experts in minutes, and without waiting for on-site service
- Benefit from the largest global service organization in the industry to support your on-site needs when necessary

Inclusive testing options for quality confidence

Videojet sample testing ensures your product codes meet specification. You'll receive a detailed report with optimized setup parameters for your specific code and substrate. Oxygen and water permeations tests are available to validate that the packaging integrity remains intact after UV laser marking.

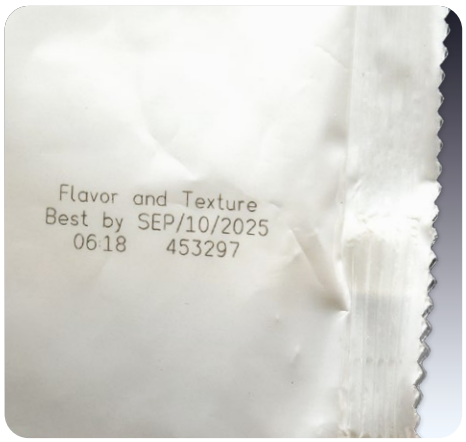
Substrates, applications, and industries



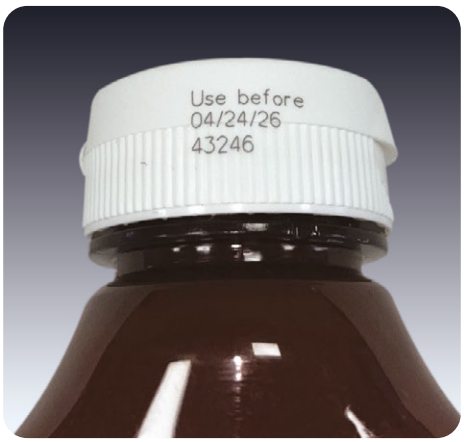
Hard plastic - cup

Flexible packaging - pouch

Soft plastic - tube



Flexible film - bag



Hard plastic - cap

Flexible packaging - bag

Soft plastic - tube

Flexible packaging - bag

Hard plastic - cap

VIDEOJET® 7920
UV Laser Marking System

Marking fields
F203: 91.0 x 113.2 mm² (244 mm nominal working distance)
F290: 135.5 x 149.1 mm² (344 mm nominal working distance)
F460: 235.1 x 355.8 mm² (591 mm nominal working distance)

Marking heads
SHU-SF

Marking speed
Up to 2000 characters per second

Laser source / Wavelength
4W UV / 355nm

Beam deflection
Standard, BTU

Beam orientation
0 to 360°, straight out

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, Omnidirectional, RSS Limited, RSS Expanded, etc.

2D codes: DataMatrix, DMRE, GS1, QR

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

Operator interface
SmartGraph, TCS+ (TU440), CLARiTY

TCS+
Browser-enabled software for intuitive creation of complex jobs on standard web browser compatible devices

Support for 30 languages

Full user access control and role definition

Event log for history of user interactions

Graphical guided line setup wizard

Easy system and parameter configuration
WYSIWYG editor

Smart Graph software
Graphic-orientated user interface for Windows®

Text / data / graphics / parameter editor

Configurable in 30 languages, e.g. in German, English, Japanese

Easy import functions for the most important file formats (dxf, jpg, ai, etc.)

Language capabilities
30 language kits supported

Communication
Network interfaces (LAN, WLAN, optional Wi-Fi and LTE Cellular)

Electric requirements
100VAC to 240VAC (autorange), 1-phase

Power consumption
360VA

Cooling system
IP54: integrated air cooling

IP65: external cooling unit

Environment
Ambient temperature: 5-40°C

Relative humidity: 10-90%, non-condensing

Sealing and safety standards
IP54, IP65 (optional)

Approximate weight
Supply unit: 12 kg

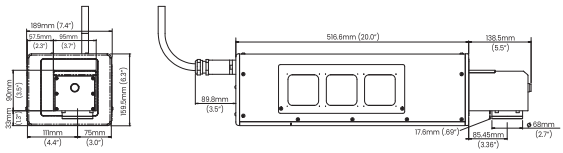
Marking unit: 20kg

Marking unit dimensions
W x H x L: 189 x 159.5 x 655 mm³ (including marking head)

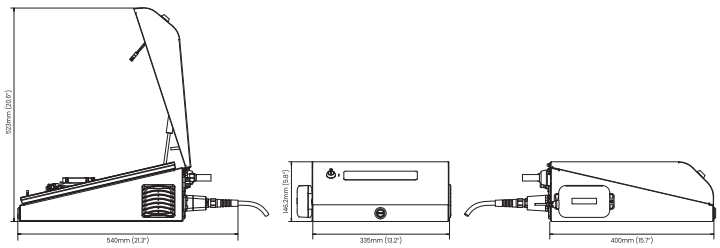
Supply cabinet dimensions
W x H x L: 335 x 400 x 147 mm³

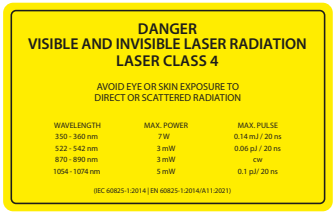
Applicable certifications
CE, TÜV/NRTL, FCC, KC
Compliance (no certification required): ROHS, CDRH/FDA

Marking unit dimensions:



Supply cabinet dimensions:





User interface dimensions: