SUNINE

UV-V6 Series UV530FC/1030FC
UV LASER MARKING MACHINE

V6 Intelligent Control Platform
High-Speed Coding · Fine Marking · Stable & Reliable

Introduction

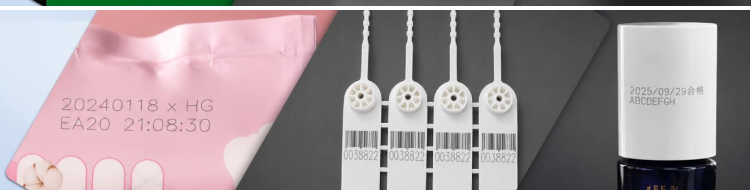
- Delivers reliable performance under low, high, and fluctuating temperature conditions.
- Powered by the new-generation SUNINE V6 platform, providing powerful computing capability and real-time connectivity.
- Adjustable scanning head design adapts to different installation environments, enabling flexible integration into production lines.
- Minimizes the risk of damage when marking on thin and delicate materials.

Applications

Food, Beverage & Alcohol
Paper boxes, plastic bottles, glass bottles, aluminum cans, flexible packaging, bottle caps

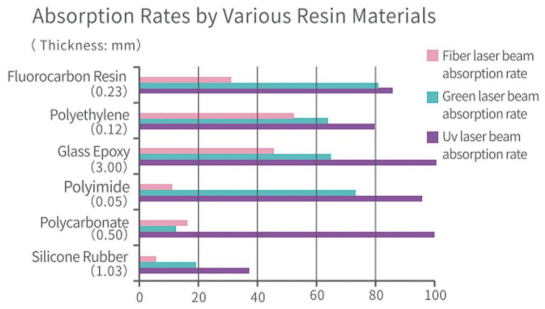
Biopharmaceutical
Medicine boxes, aluminum foil, composite film bags, plastic bottles, glass bottles, ampoules

Cosmetics & Personal Care
Plastic bottles, tubes, composite films, paper boxes, labels, spray bottles, bottle caps

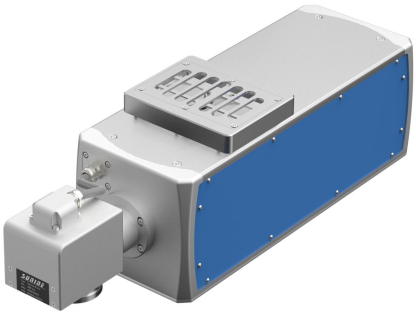


High-Contrast Marking with Damage-Free Surface Processing

The 355nm UV laser features excellent absorption characteristics on various plastics and heat-sensitive materials, enabling clear and high-contrast marking. With minimal thermal impact, it reduces the risk of material deformation, carbonization, and burr formation. Actual marking results depend on sample testing.



Stable & Durable Laser Head with Flexible Beam Delivery

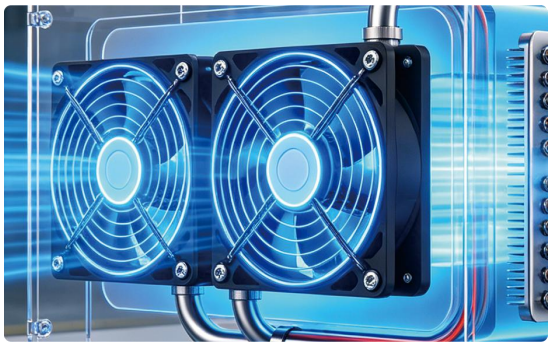


- Compatible with Various Materials, Low-Damage Precision Processing Supports metals, plastics, films, and coatings. Optimized energy control reduces burning, deformation, and damage, ensuring clear marking on thin and fragile materials.
- Wide Temperature Range Stable Operation Tested for high, low, and fluctuating temperatures, ensuring reliable performance in complex production environments with reduced downtime.
- Adjustable Galvanometer Scanner Multi-angle adjustment for easy integration into various automated production lines.
- Flexible Installation Design Supports extension arms and 90° optical path components for versatile installation.
- IP54-Rated Laser Head Dustproof and water-resistant design for reliable operation in harsh industrial environments.

SUNINE V6 Software Platform & Industrial HMI

- The intelligent marking optimization algorithm automatically adjusts marking paths based on character structure and content, improving processing efficiency and marking quality.
- Supports fast editing of vector graphics, text, barcodes, and other marking contents. The software is continuously upgraded and optimized with a user-friendly interface, enabling operators to quickly master the system.
- Supports marking of various texts, images, and QR codes, with both vector and dot matrix marking modes available.
- Equipped with a 10-inch color touchscreen featuring waterproof, dustproof, and anti-interference protection. The display offers a response time of ≤50ms and supports a 180° wide viewing angle for convenient operation.

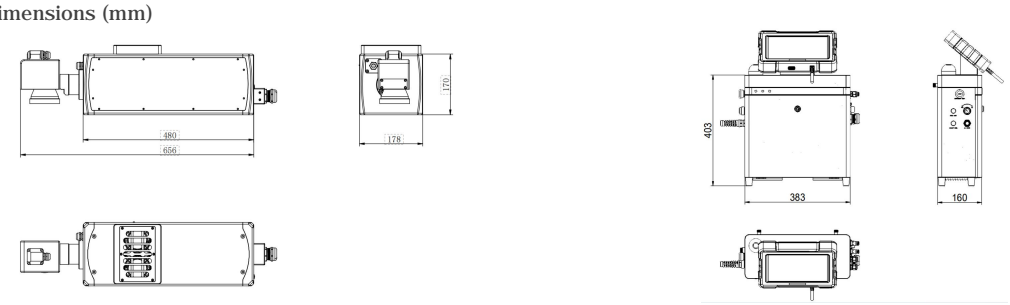
Wide Temperature Range Variable-Frequency Cooling System



The special air-cooling design enables the laser to maintain its operating temperature within 5-40 °C, adapting to harsh working environments. It maintains a stable laser temperature to protect core optical components, preventing overheating aging, lens deformation, and low-temperature condensation damage. Reduces thermal stress, improves equipment reliability, extends laser lifespan, and minimizes maintenance downtime.

Model		UV530FC	UV1030FC
Basic Configuration	Laser power	5W	10W
	Laser type	UV Laser Source (Coherent Laser Source)	
	Laser wavelength	355nm	
	Marking field	Standard: 110mm x 110mm (Maximum: 600 x 600mm)	
	Positioning method	UV preview & Red-light positioning	
Marking Features	Writing speed	1350 characters / second	
	Production line speed	0~300m/min (varies according to materials and printing contents)	
	Lines of characters	No limits within mark field	
	File format	BMP/DXF/PNG/JPEG/PLT/JPG	
	Code type	Code128A, Code128B, Code128C, Code39, Code93, EAN-13, PDF417, 01 Code; QR, DM, GS1-DM, AztecCode, HanxinCode, DotCode	
System Features	Operating system	SUNINE V6 platform Linux Based	
	Type of marking	Both dot matrix and vector	
	Language	Chinese Simplified, Chinese Traditional, English, German, Spanish, French, Italian, Japanese, Korean, Portuguese, Russian, Arabic, etc.	
	Interfaces	RS-232C / USB2.0 / Ethernet, I/O	
Structure and Conditions	Machine material	Anodized aluminum (Laser Head) & Stainless Steel (Control Unit)	
	Power supply	100~240V - 50/60Hz	
	Max. consumption	≤800W	
	N.W.	40kg	
	Dimensions	656mm x 178mm x 170mm (Laser head) 403mm x 383mm x 160mm (Control unit)	
	Cooling system	Air-cooled	
	Working conditions	5-40℃; 30%-85% RH (No-condensing)	

Dimensions (mm)



Guangzhou Sunine Intelligent Technology Co.,Ltd. (HQ)

Building 13, No. 39 Xinhe North Road,Ningxi Street,Zengcheng District,
Guangzhou, China 511300
+86 020-87269462
info@suninelaser.com
www.suninelaser.net

Sunine Technologies Pte Ltd (Singapore)

627A Aljunied Road #08-04
Singapore 389842
+65 9159 3261
taksing@suninelaser.com
www.suninelaser.net

Portal to official website