

SUNINE UV-V6 SERIES

UV LASER MARKING MACHINE

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



Product Features

- ▶ Compact dual-layer structure design, combined with dual cooling modules, ensures stable operation of the control box under both high and low temperature environments.
- ▶ The new-generation SUNINE V6 intelligent control platform provides powerful computing performance and real-time interconnection capabilities.
- ▶ The adjustable scanning lens adapts to different installation environments, enabling flexible integration into production lines.
- ▶ High-speed marking performance, reaching up to 1350 characters per second.

Applications

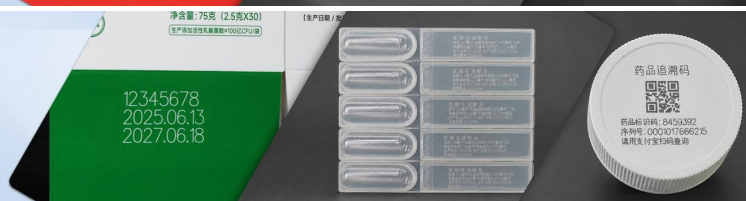
Food, Beverage & Alcohol

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



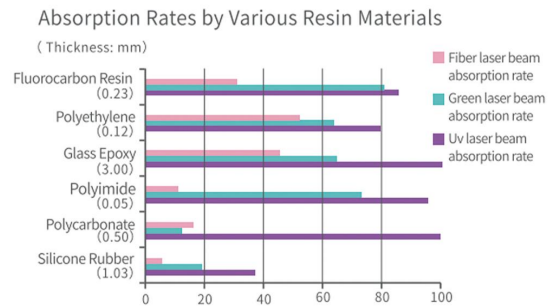
Cosmetics & Personal Care

Plastic bottles, tubes, composite films, paper boxes, labels, spray bottles, bottle caps



High-Contrast Marking, No Material Damage

355nm UV lasers have excellent absorption characteristics for various plastics and heat-sensitive materials, enabling clear and high-contrast marking. The low thermal impact during processing helps reduce the risk of material deformation, carbonization, and burr formation. Actual results may vary depending on sample testing.



Stable & Durable Laser Head with Flexible Beam Transmission



Compact & Durable Structure

- ▶ Robust Aluminum Housing: Full anodized aluminum body, resistant to impact and corrosion for harsh industrial environments.
- ▶ 360° Adjustable Installation: Flexible rotation design with full-length rail support for easy installation and precise alignment.

Flexible Configuration & Adaptability

- ▶ Standard Safety Features: Built-in red light positioning and focusing functions for safe and convenient setup.
- ▶ Multiple Lens Options: Supports marking fields from 110×110mm to 600×600mm for various marking requirements.
- ▶ Flexible Beam Extension: Optional extension tubes and 90° beam steering units enable processing in narrow or complex workspaces.
- ▶ Multi-Directional Scanning: Supports flexible scanning directions and easy integration into automated production lines.



Easy Maintenance & High Protection

- ▶ Modular Split Design: Simplifies installation, maintenance, and component replacement.
- ▶ IP54 Protection Rating: Provides dust and water resistance for stable operation in demanding industrial environments.

SUNINE V6 Software Platform & Industrial HMI

- ▶ Automatically optimizes marking paths based on character structure and content, improving processing efficiency and marking quality.
- ▶ Supports quick editing of vector graphics, text, and barcodes with continuous software optimization and easy operation.
- ▶ Supports marking of various texts, images, and QR codes with vector and dot-matrix marking modes.
- ▶ Equipped with a 10-inch color touchscreen featuring waterproof, dustproof, anti-interference performance, ≤50ms response time, and 180° wide viewing angle.





The stainless-steel control box features a dual-layer structure with an independent dual cooling system (air cooling + heat dissipation) for precise zone temperature control. The upper control box adopts an IP54 protection design, maintaining stable internal temperature even in 40°C environments. It effectively prevents heat buildup, reduces high-temperature failures, and ensures reliable operation.

Model		UV1520C	UV2020C
Basic Configuration	Laser power	15W	20W
	Laser type	UV Laser Source (Sunine 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	200~240V 50/60Hz (100-120V optional)	
	Max. consumption	≤1560W	
	N.W.	55kg	
	Dimensions	721mm x 161mm x 160mm (Laser head) 315mm x 377mm x 404mm (Control unit+chiller)	
	Cooling system	Water-cooled	
	Working conditions	5-40°C; 30%-85% RH (No-condensing)	

Dimensions (mm)



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

Building 13, No. 39 Xinh 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