

SUNINE UV-V6 SERIES

UV LASER MARKING MACHINE

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



Product Features

- ▶ Dual-layer structural 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

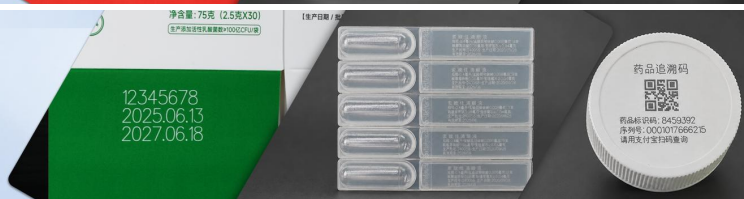
Food, Beverage & Alcohol

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

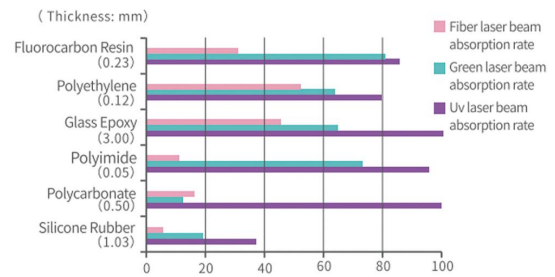
Plastic bottles, tubes, composite films, paper boxes, labels, spray bottles, bottle caps



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.

Absorption Rates by Various Resin Materials



Stable & Durable Laser Head with Flexible Beam Transmission



Durable & Flexible Structure

- ▶ **Robust Aluminum Housing:** Full anodized aluminum body provides excellent impact and corrosion resistance, ensuring reliable operation in demanding industrial environments.
- ▶ **360° Adjustable Installation:** Flexible rotation design with full-length rail support enables convenient installation, precise positioning, and easy alignment for different production setups.

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

The system uses an industrial-grade resistive touchscreen, offering key advantages over capacitive screens:

- ▶ Excellent anti-interference performance, resistant to dust, electromagnetic interference, static electricity, and frequency converters in harsh industrial environments, ensuring stable touch operation without drift or failure.
- ▶ Designed for industrial operation, supporting use with gloves, probes, or hard styluses. Resistant to oil and debris, with stable touch response under both high and low temperature conditions.



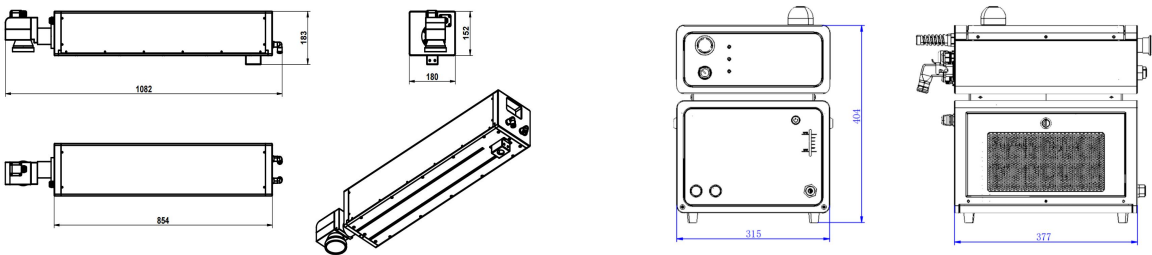
Dual-Layer Structure Design + Dual Cooling Modules



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	UV2030C	UV3030C
Basic Configuration	Laser power	20W
	Laser type	UV Laser Source (Coherent laser source)
	Laser wavelength	355nm
	Marking field	Standard: 110mm x 110mm (Maximum: 600 x 600mm)
	Positioning method	Red-light positioning and preview
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	≤1935W
	N.W.	41kg
	Dimensions	1082mm x 180mm x 152mm (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)



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