

SUNINE UV-V6 SERIES

UV LASER MARKING MACHINE

SUNINE V6 Platform
Smarter · Easier · Tougher



Product Features

- ▶ Compact dual-layer structure with dual cooling modules ensures stable operation of control box in both low and high temperatures.
- ▶ New generation of Sunine V6 platform delivers powerful performance and real-time connectivity.
- ▶ Freely adjustable scanning lens adapts to various installation environments for flexible production line integration.
- ▶ High marking speed up to 1350 characters per second.

Applications

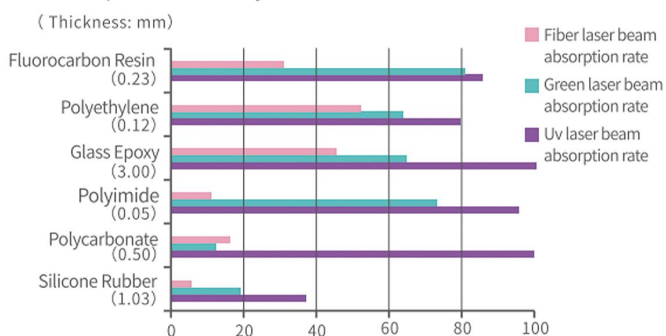


High Contrast & Non-Damaging Marking

Compared with 1064 nm IR and 532 nm green Lasers, UV Lasers offer higher material absorption, delivering high-contrast, non-damaging marking.

Thanks to the wavelength at 355nm and high-contrast cold-marking technology, it produces no extra heat stress, avoid carbon deposits and burrs, maintain surface integrity, and enable corrosion-resistant marking.

Absorption Rates by Various Resin Materials



Robust Laser Head and Flexible Beam Delivery



- Compact design with only 537mm length, smaller footprint than similar products.
- The structure is made of 12mm thick aluminum, making it sturdy, durable, and suitable for various working conditions.
- A full-length guide rail design supports multi-directional installation and precise alignment.
- Red light aiming and focusing are standard configurations, meeting laser safety standards.
- Multiple lens configuration options from 110x110mm to 600x600mm are available to suit various marking files.
- The scanning head is multi directional, allowing for easy integration into various automated production lines.
- Multiple extension arms + 90-degree beam turing unit.
- Modular structure design makes installation and maintenance more time-saving and labor-saving.
- IP54 laser head protection, dustproof and waterproof, suitable for harsh operating environments

Sunine V6 Software & Industrial-Grade HMI

- Intelligent optimization marking algorithm automatically optimizes the path based on character structure and content.
- Easy editing of vector graphics, text, barcodes, and more, with continuous upgrades and user-friendly design for fast operator onboarding.
- Marks various types of text, images, and QR codes; supports both line and dot matrix marking.
- 10-inch color touch screen — waterproof, dustproof, anti-interference, ≤50ms response time, and 180° wide viewing angle.

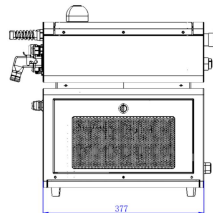
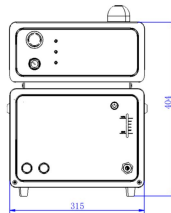
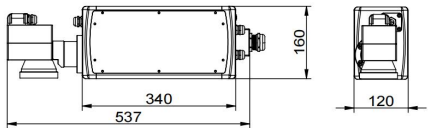


Dual-Layer Design + Dual Cooling Modules



The control box is made of stainless steel and features a double-layer structure design. It employs an independent dual cooling system (air cooling + heat conduction) to provide zoned and precise temperature control. The upper control box has a sealed IP54 protection design, which can maintain a constant internal temperature even at an ambient temperature of 40°C, preventing heat accumulation and reducing the high-temperature failure rate.

Model	UV520c	UV1020c
Basic Configuration	Laser power	5W
	Laser type	UV Laser Source (Sunine Laser Source)
	Laser wavelength	355nm
	Marking field	Standard: 110mm×110mm (Maximum 600x600mm)
	Positioning method	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	220-240V, 50/60Hz (100-110V optional)
	Max. consumption	≤750W
	N.W.	41kg
	Dimensions	537mm x 120mm x 160mm (Laser head) 315mm x 377mm x 404mm (Control unit+chiller)
	Cooling system	Close-loop Water-cooled
	Working conditions	0-40°C; 30%-85% RH (No-condensing)



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