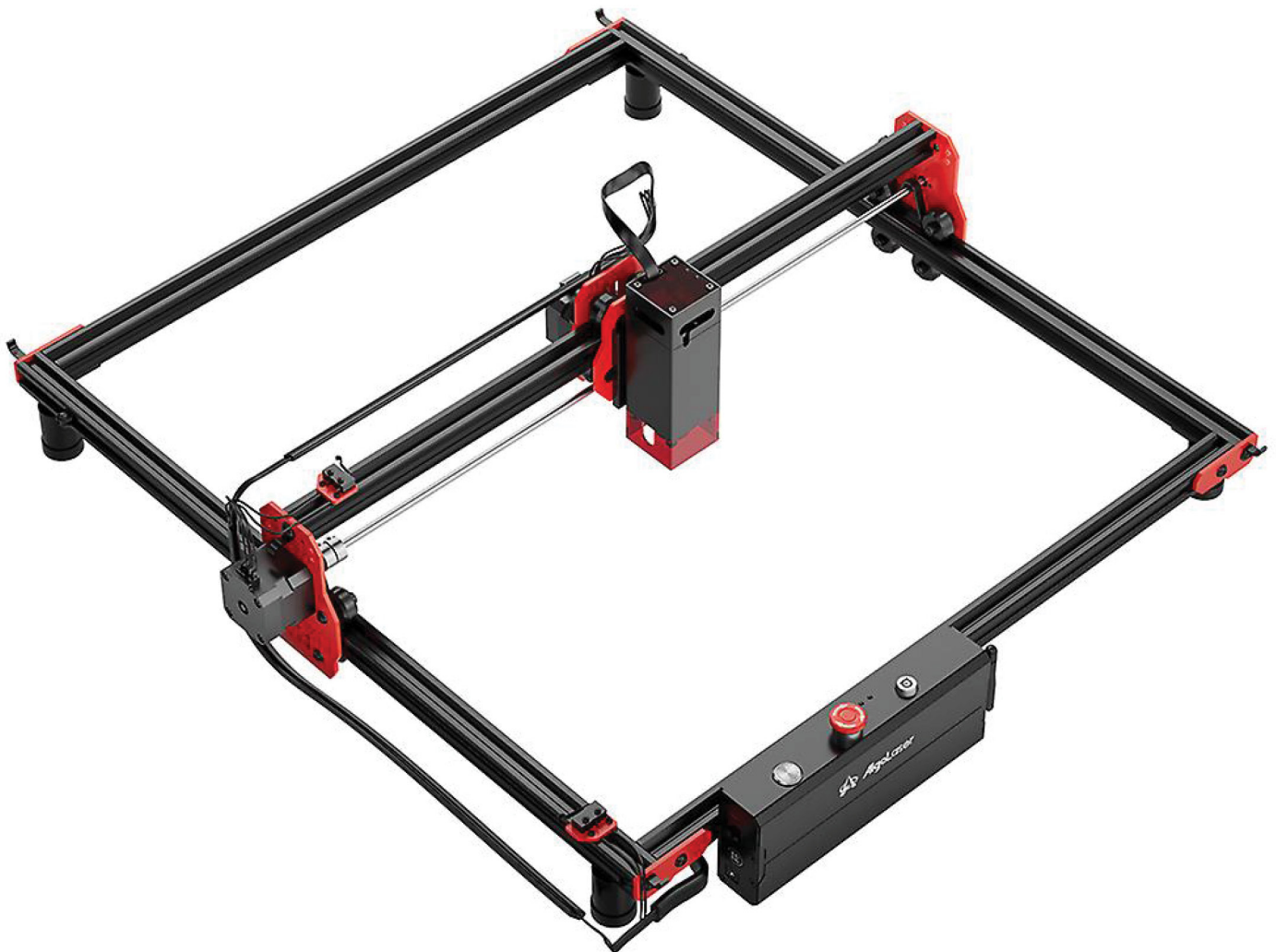




DIY KIT 5W

DIODE LASER ENGRAVER

AFFORDABLE AND UPGRADEABLE



**1 YEAR WARRANTY
AND UNLIMITED SUPPORT**



TECHNICAL PARAMETERS

AlgoLaser DIYKIT Mechanical Frame

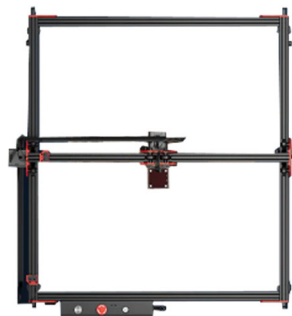
Optical power	5W
Machine power	72W
Power supply	24V3A (6A MAX)
Engraving speed	12,000mm/min
Spot size	0.04mmx0.09mm
Laser head life expectancy	>8000 hours
Certification	FCC/CE/RoHS/FDA
Warranty	12 Months
Safety features	Safety Lock (Keep the Key, Professional Use only), Gyroscope detection, Active Light Detection and Protection, USB Disconnect Shutdown, Voltage and Current Safety Control System, Emergency Stop Switch, Temperature Monitoring

Software and Connection

System supported	Android, iOS, Windows, Mac OS, Web-based
Control software	AlgoLaser App / LightBurn/LaserGRBL
Compatible accessories	5W laser module, 10W laser module, Engraving Platform, Fire-proof Box, Rotary Chuck, Rotary Roller
File Format Supported	JPG, SVG, PNG, BMP, G-code, CAD, AI, CDR, DWG,

Packaging

Machine size	642x602x128mm
Packing size	680x310x160mm
Weight	5.5kg
Laser module size	44mmx44mmx132mm
Optical power output	≥5000mW(5W)
Laser output wavelength	455±5nm
Focal distance	4.8mm (from module radiator to material)
Operating temperature	-10°C--40°



Why choose DIY KIT

More power, more efficiency

The 10W laser module is able to engrave with precision and can cut wood and acrylic plate with thickness

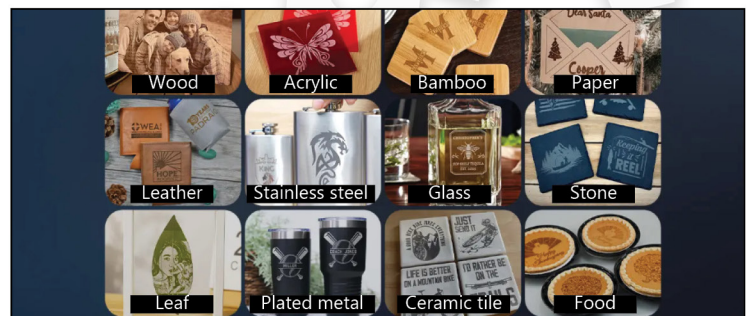
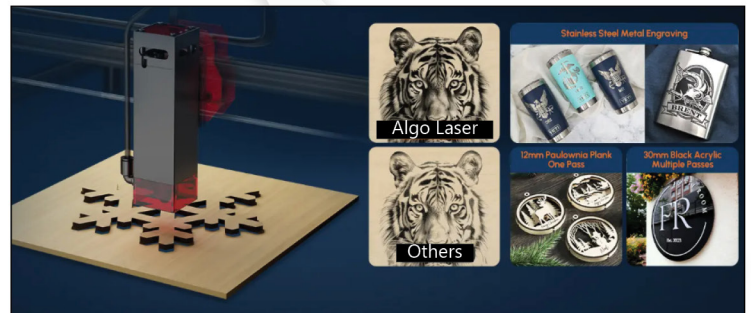
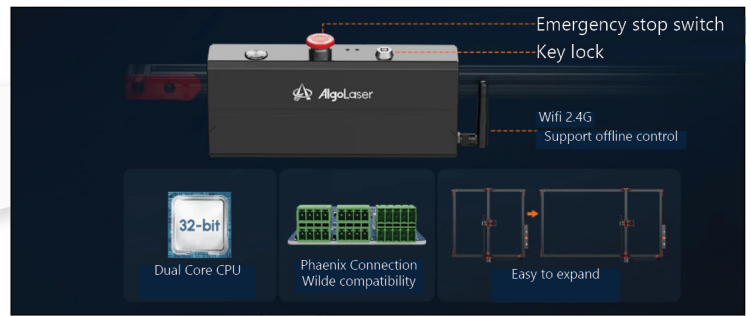
High accuracy, high speed

12000mm/min Speed

Unleash your creativity on multiple materials

Explore more fun

The 5W entry-level laser engraver that supports WiFi, USB-C, and built-in TF card Only in the market. For newbies, you can easily get started engraving offline with AlgoLaser App



DETAILS

Dual-core CPU

Deliver significant speed boost, achieving an impressive 32% higher CPU performance and 50% improved energy efficiency.

Upgraded Motherboard

Improved performance, expanded storage 8MB RAM, 8MB storage memory, and a built-in 32GB SD card.

Strong Compatibility

Thanks to the upgraded motherboard, the DIY KIT is compatible with power up to 20w to satisfy more requirements. With Smart Hub and AUC, it can work with versatile accessories from different brands.



7 Safety Protections



Easy to upgrade and expand

The upgraded terminals of the motherboard, as well as modularization design of DIY KIT, allows users to extend the existing frame and connect other accessories to achieve more possibilities.

Thoughtful Design

- o User-friendly installation - The assembly takes only 10~15 minutes with instruction help, even for newbies.
- o Wire Management - With few wires, proper notches and wire ties, no worry about tangled wires and misplugging.
- o Stable Structure - Motion structure 4-wheel design and Y-axis synchronization design ensure motion stability.
- o 2 limit switches and 4 limit studs to prevent impact damage to the laser module.
- o Stable body and non-slip feet support the machine to work without shifting.



Machine

- A Front frame*1
- B Rear frame*1
- C Left Y-axis frame*1
- D Right Y-axis frame*1
- E X-axis frame*1
- F Control box*1
- H L-Bracket*4
- I End plate*4
- J Limit switch mounting plate*1
- K Limit switch*2
- L Screw M5X8*4
- M Screw M2.5X6*2
- N M5X15X1*4 Washer
- O M2.0 Allen key*1
- P Screwdriver*1
- Q Brush*1
- R Laser goggle*1
- S Power cable*1
- T Support foot*4
- U Power adapter*1
- V USB cable*1
- W Timing belt*2
- X Machine key set*1

Laser Module

- U Laser module*1
- V Laser module cable*1
- W Focus assist*1
- X Laser shield*1
- Y Thumb screw*2

Consumable

- Z Plywood*1 (340mmx220mm x3mm)
- AA Acrylic*1 (175mmx-122.5mm x3mm)
- AB Metal card*3 (86mmx54mm x0.2mm)
- AC Cable ties*5