

Light up your free mind of creation
Made for STEAM education and makers

Good-Laser Light 530

Smart desktop CO2
Laser cutting & engraving machine



High refined & High efficient

55W
CO2 laser power **≤0.025mm**
Laser beam precision

The **55W** CO2 laser power with **10640nm** wavelength, max working speed up to **600mm/s**, laser beam positioning accuracy of **0.025mm** with red dot positioning, and maximum cutting thickness up to **20mm**(Acrylic), the powerful combination of features makes your laser creation more refined and efficient.



All-around safety
protection



The fully enclosed body and internal structure, drawer and top cover open stop safety protection design, emergency safety button, safety key, indicator light, multiple safety combined. Which in accordance with CE certificated tested by SGS lab and FDA registration of Class 1 laser safe product.

CE FDA

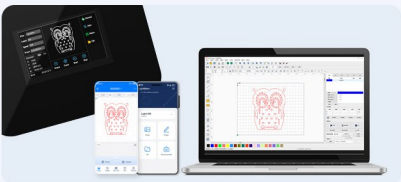
Robust laser head assembly

Highly robustness with fully enclosed and semi-open optional laser head design for stable operation of more than **9000** hours service life, combine the autofocus and laser lifting stroke **30mm** for easy and fine cutting & engraving.



Powerful and easy-to-use
design system

The 5inch operation screen and powerful creation software that compatible with PS、AI、CoreDR AW、AutoCAD、Solid-works. Upload high-quality designs in JPG、DXF、AI、DST、PNG、BMP、TIF、or SVG, and all of those works can be done on the phone as well, with LightMkaser' s APP version to easier and more innovative design and operate your laser works.



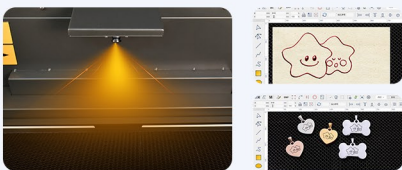
Supported software :



Supported file formats: JPG, DXF, AI, DST, PHG, BMP, TIF, SVG.

4K 16MP ultra HD CCD camera

The panoramic **4K 16MP** resolution ultra HD camera is for image pattern extraction, and multiple fixed position carving, it can also be a monitor to review the whole working process, three practical and creative features in one.



ECO-friendly &
Cost-effective

The integrated filter design that equipped with industrial grade activated carbon and silent fan to work more efficiently, environmentally -friendly and cost effective.



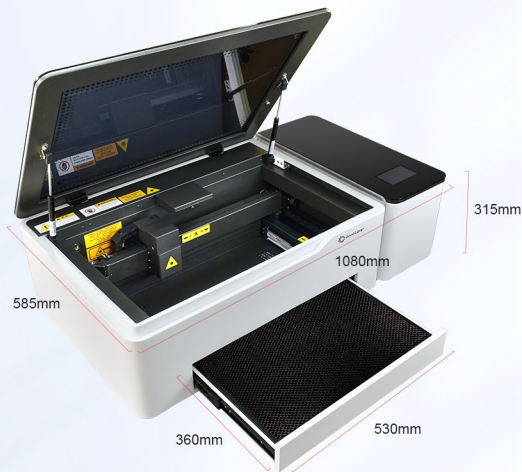
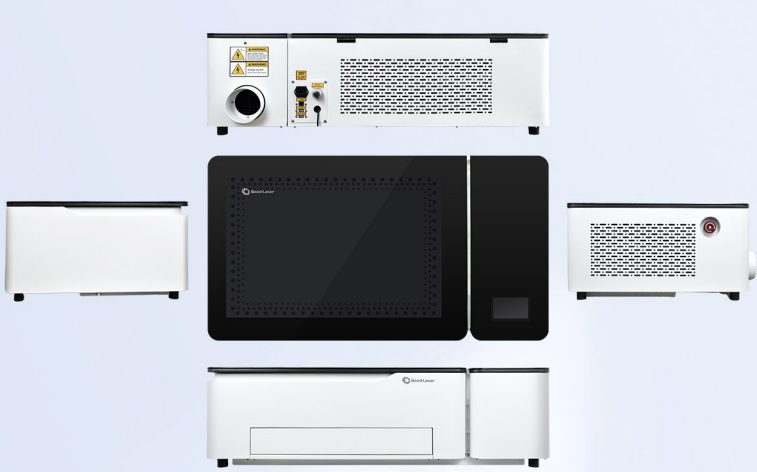
Wide range of applicable materials

Non-metallic materials such as :

Wood paper cardboard acrylic cloth leather upholstery two-tone board PET rubber veneer fiberglass plastic marble



Specification



Specification

Laser type	Sealed carbon dioxide glass laser tube
Laser power	55W
Work area	500×300 mm
Maximum working speed	1~600mm/s
Positioning accuracy	≤0.025mm
Lifting stroke of laser head	≤30mm
Cutting thickness	20mm(Acrylic)
Material thickness	≤ 22mm
Focus method	Auto focus, manual focus
Connection method	Support USB, network cable and WIFI connection.
CCD Camera	4K 16MP
Support system	Windows, Mac OS
Support software	Ps, Ai, CorelDRAW, AutoCAD, Solidworks, etc
Supported file formats	JPG, DXF, AI, DST, PNG, BMP, TIF, SVG. etc
CNC software system	RDWorksV8 or Lightburn(PC), LightMaker(Mobile)
Operate control method	5inch LCD touch screen/ mobile phone APP/ PC software
Machine working noise	≤60db
Transmission form	Stepper motor X-direction linear guide +3M synchronous belt; Y-direction linear guide +3M synchronous belt
Safety protection	Interlock switch with open cover to stop, flick drawer to stop, emergency button, safety key, working status indicator, Water tank high temperature alarm.
Power supply system	220V/110V AC 50HZ/60HZ
Machine weight	NW :72kg / GW : 99KG
Mahince weight	1080*585*320mm

Water Cooling System Specification (built-in)

Cooling method	Built-in water cooling system (water tank & water chiller)
Working voltage	DC 24V air cooling + aluminum coil
Water tank capacity	3.5L
Maximum Pressure	5M
Water flow	1000L/h or external dedicated CW3000 laser chiller (optional)

Water Cooling System Specification (built-in)

Voltage	AC 220V/110V 16W
Displacement	50L/min
Noise	≤48dB
Air pressure	≥0.05Mpa

Suction System Specification
(external conjoined) side down ventilation

Rated voltage	DC 24V/62W
Air volume	280 m³/H
Voltage	≤50dB
Noise	≤50dB

Filtration system

Activated carbon board + Silent fan + Industrial grade activated carbon bricks