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## Partager ce projet

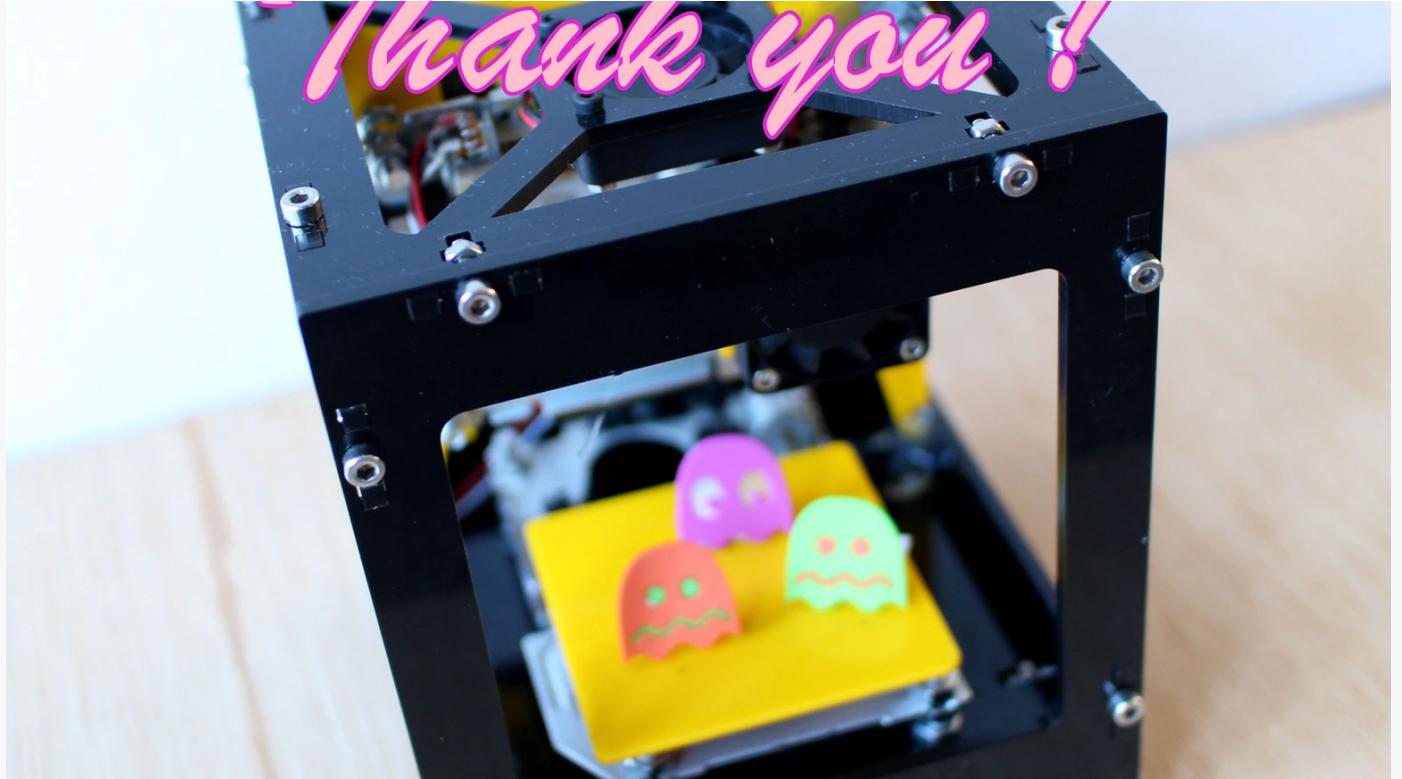
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Laser Cube - Enjoyable Laser Engraver and Cutter



An Enjoyable Laser Engraver and Cutter

[Order Now !](#)



Créé par

[Wei & Sunny](#)

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347 contributeurs ont engagé 88 668 \$ pour soutenir ce projet.

📅 Dernière mise à jour : 4 janvier 2015

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## Laser Cube - Enjoyable Laser Engraver and Cutter

[Coups de cœur](#) [North Auburn, CA](#) [Technologie](#)**88 668 \$**

engagés sur 10 000 \$

**347**

contributeurs

*Dear Backers and supporters,*

**Thanks for every one who supported the campaign and made it an amazing success.**

If you like to get more inf, please view our website which will be available at: [www.littlegeektoys.com](http://www.littlegeektoys.com)

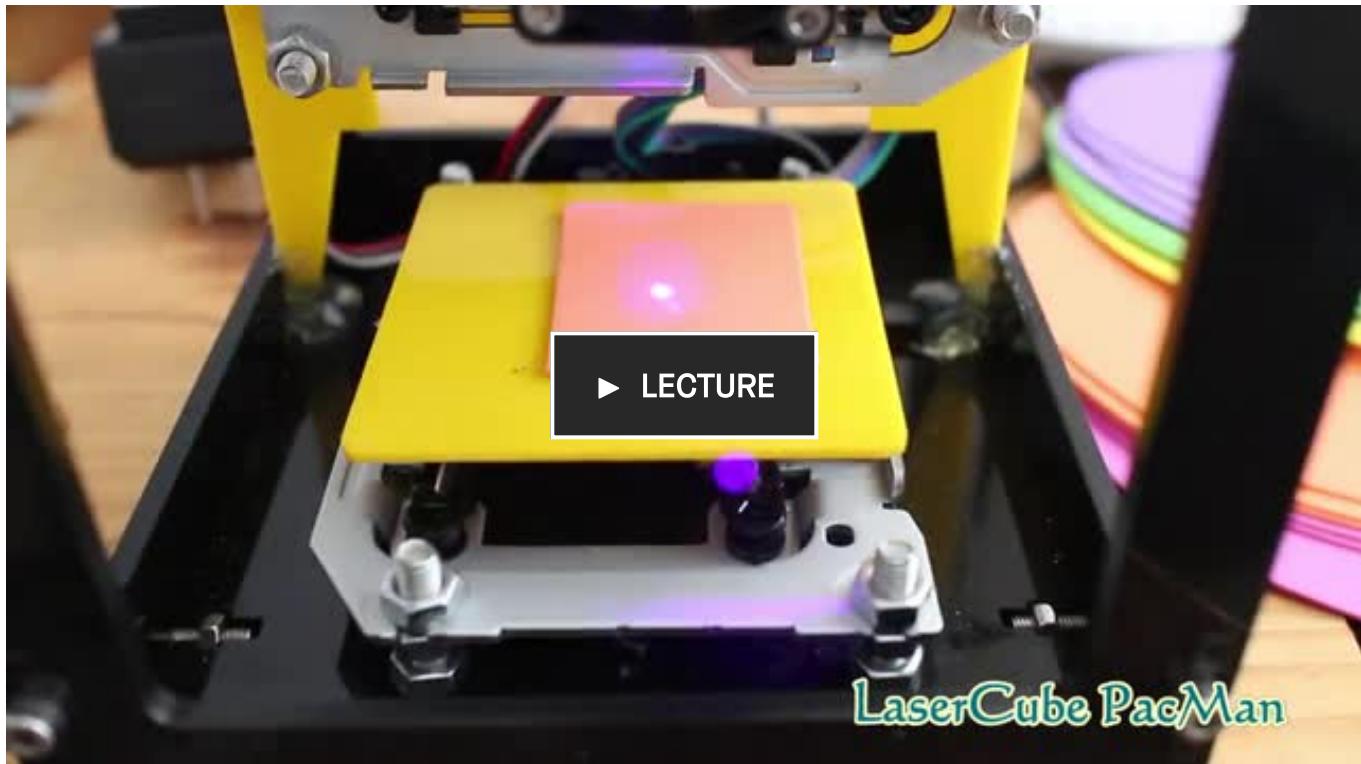
***Best wishes for All of you!***

What is laser Cube: The cost-effective laser cube is an entry level desktop cutter or engraver design for hobbyists. Its technology is by using powerful laser to cut paper and to engrave wood, leather,bamboo, plastic, and other materials.

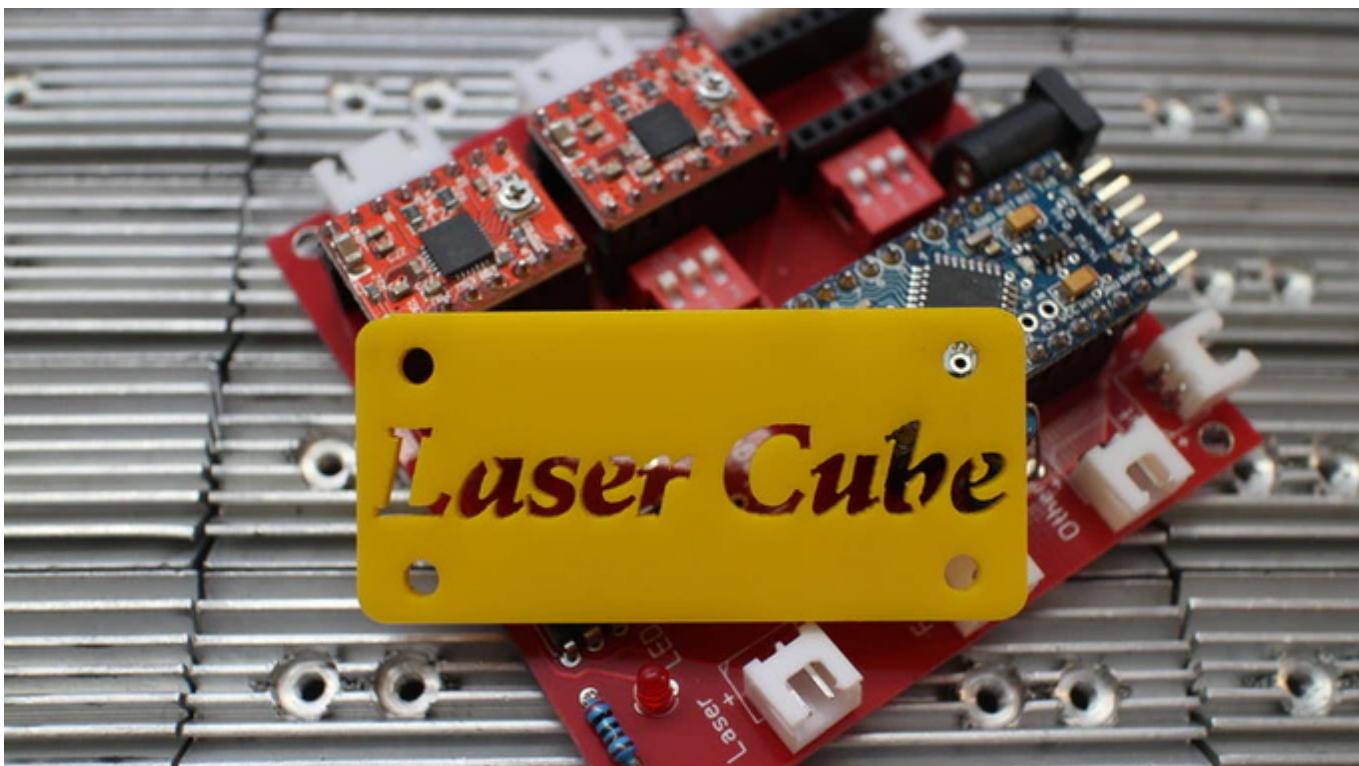
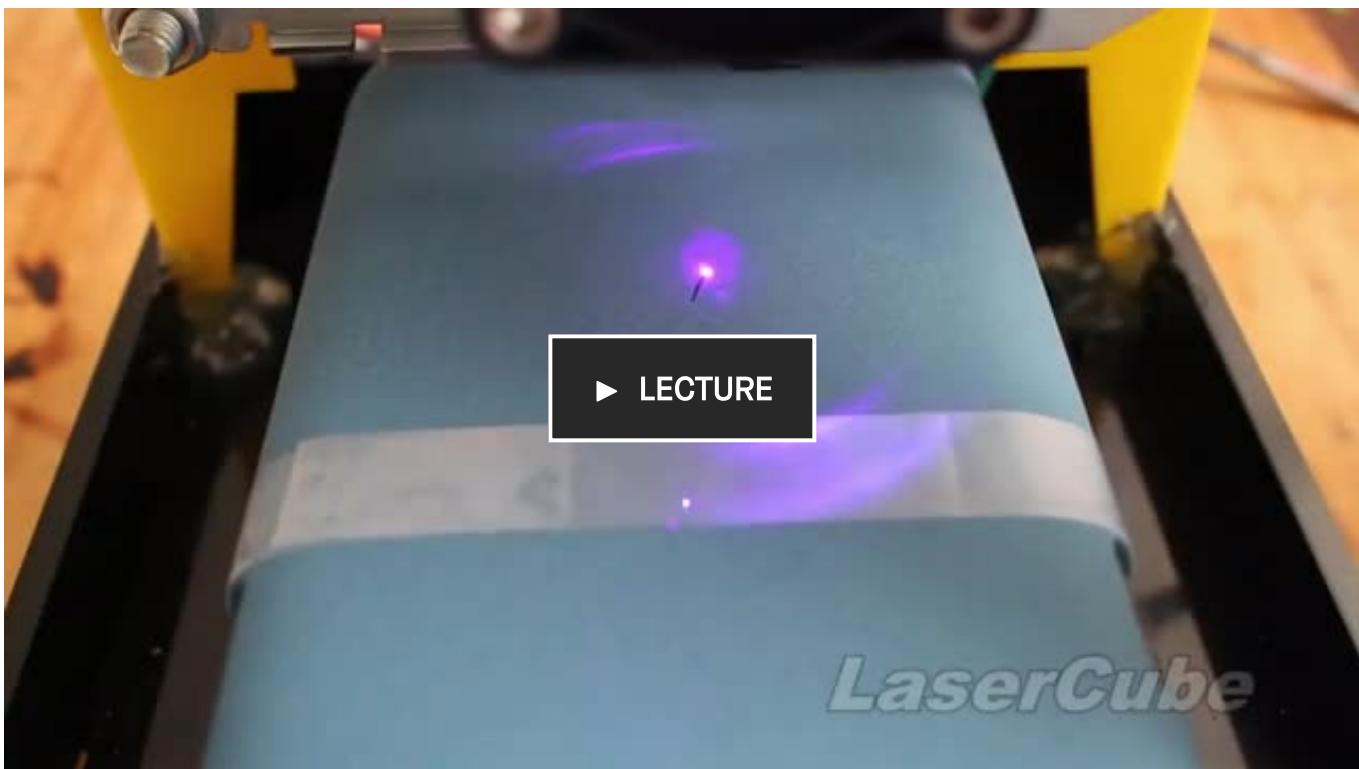


The LaserCube operating by

GRBL [http://www.shapeoko.com/wiki/index.php/Grbl\\_Controller](http://www.shapeoko.com/wiki/index.php/Grbl_Controller) Grbl Controller 3.61 to Send G-code to the machine. ( For more details, look at FAQ)



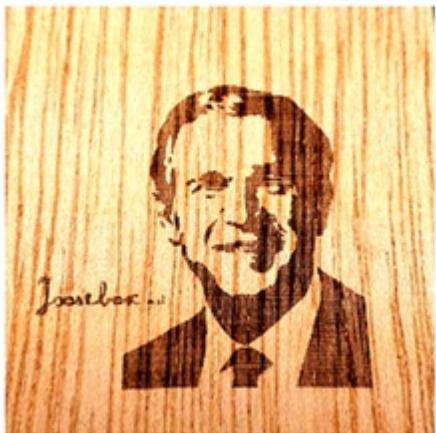
*Video showing you the engraving on the cell phone case*



*The Main Board of Laser Cube*

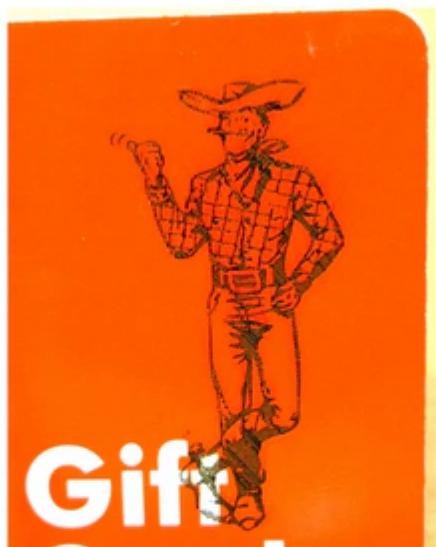


Laser Cube is also as a kit ,it comes with all the parts you need to assemble and operate your own laser cube.



LaserCube

*Engraving wood ,plastic, and paper*



*Engraving on some gift cards*



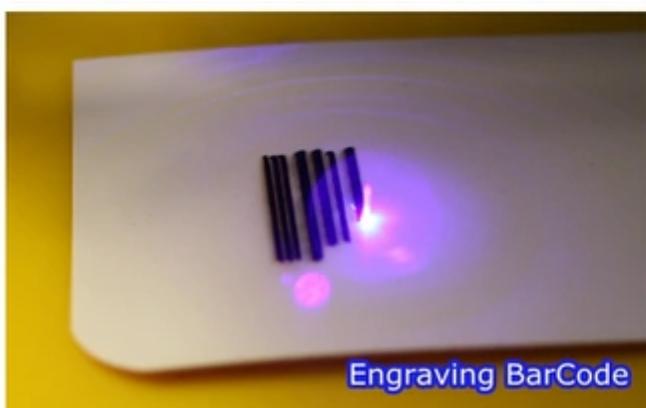
*Engraving on paper and wood*



*Engraving on the arm of sunglasses*



*Engraving Starbucks coffee stir sticks*



*Engraving BarCode*



*Engraving chocolate*

*Engraving chocolate & Bar Code & Coffee Stir Stick*

## *Copying/Stamping*



## *Painting*



*After cutting the foam, you can enjoy the fun by doing copying & painting.*



A well regulated Militia being necessary

to the security of a free State, the right

of the people to keep and bear Arms shall

not be infringed

*Engraving words on card (3.5 x3.5 cm)*

### How did the Laser Cube come out?

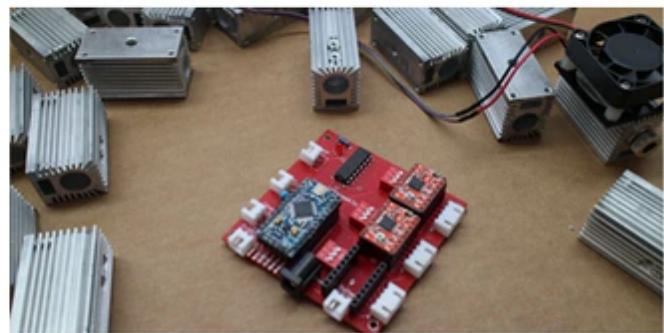
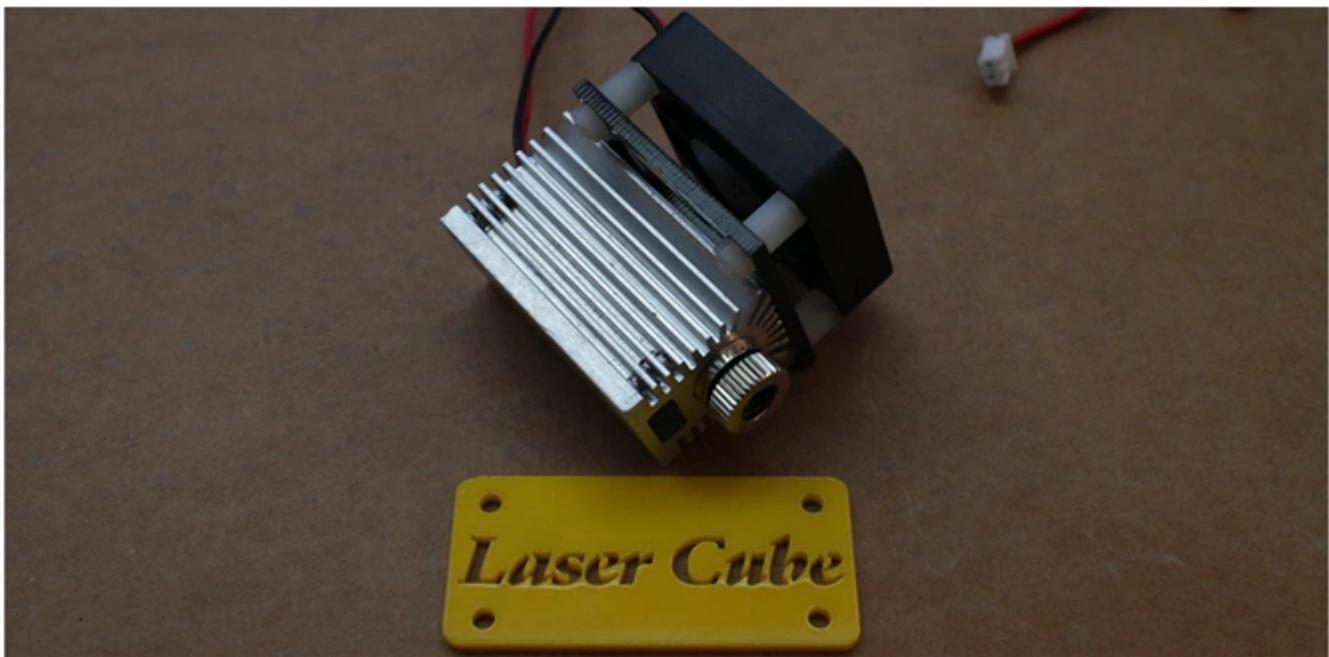
Open source is the idea to bring everyone knowledge to accessible his/her self-build up work. We have been studying and thinking about how to use these source to make an own Laser Cube .This ideal Laser Cube could work high-capable , easy to use, carried or moved, and enjoyable! For this goal, We explored on internet and collect all valuable knowledge and hardware necessities. Fortunately, we had our very original laser box down in April. we did sell some of the parts and original laser boxes . The response was good from our buyers. As a belief , we wanted the laser box could be more desirable, both of from shape and duties. Finally, we have the advance one come out now. It is Laser Cube. we were so excited .

As a result, we found out that is so interesting to make a self-build Laser Cube by using the open sources. Though we encounter some problems, such as having hard time to get all the parts of component together like other hobbyists may have, but we think it is worth. we decided to collect all the necessities and make it available to the public. As we put our laser cube project at Kickstart platform here, we hope more hobbyists can enjoy the convenience and fun from assembling the laser cube. More important thing is, if we met our

funding goal or over-funding, we are planning to make our laser cube to be more modification and rewarding more back to our supporters.

## What are the characteristics of the Laser Cube?

- The dimension of Laser Cube is ( 6 x 6 x 71/4 in)
- Working area is (4.2 x 4.2 cm/1.65in x 1.65in)MAX
- All the software ,hardware , and graphics program is open source. Free for personal use!
- Uses the Arduino.
- **100mw 405nm Violet/Blue Focusable Adjustable Laser Dot Dimensions Ø12mmX45mm**
- It comes as a kit to build at home, at a Hackspace, or with your local Maker group.
- Laser cut Acrylic frame



## How does the Laser Cube work?

The Laser Cube works exactly the same way as other professional laser cutter/engraver. The appropriate software and hardware which are open and convenient to be applied . The heart of the system is a Arduino, an Arduino and the laser cube shield. It powers the steppers(A4988 Stepper motor driver) ,the laser and handles the hardware buttons. The stepper motors move the X & Y Axis, a fan for ventilation, and a yellow cutting table.

By the way, a heatsink and two cooling fans installed to lower the temperature of the heart system and longer its useful life.

## Software

Laser Cube Controled by The **Grbl** Motion Control Software, it uses standard G-Code to interpret designs. In **Inkscape**, you can draw; use your desired patterns, and designs to engrave or cut with your Laser Cube. Please take a look at our FAQ for details .

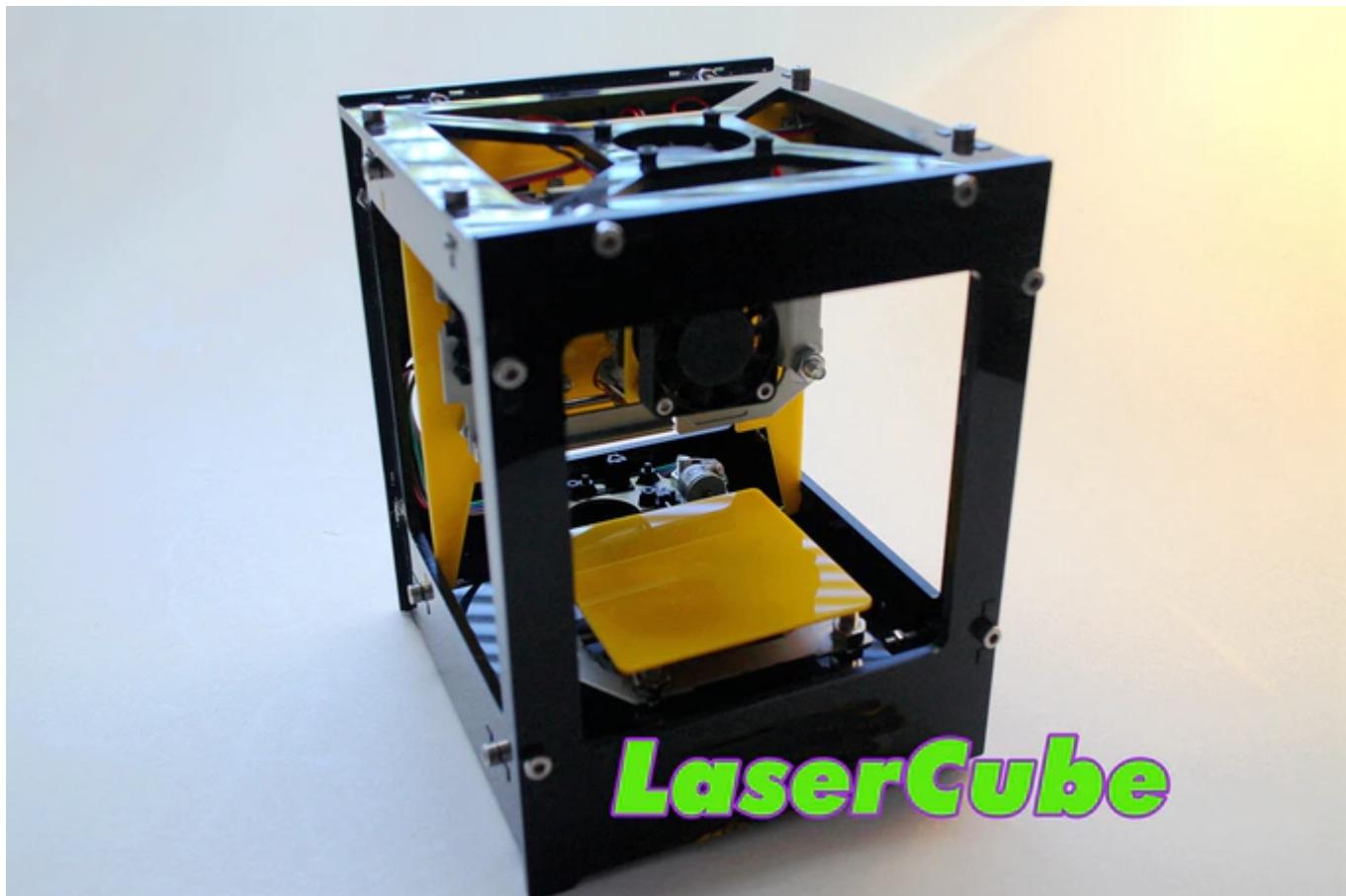
## What elements are included in the kit ?

- Laser cut Acrylic frame
- Arduino Control board
- Laser Cube shield
- Laser diode (100MW Blue) with heatsink and cooling fan
- Plastic parts (motor & laser mounts, ...)
- Axes (metal rods)
- Power supply
- All required cables, bolts and screws
- Safety glasses

Image 1.Laser Cube Kit



Image 2 (Laser Cube)



## Stretch Goals

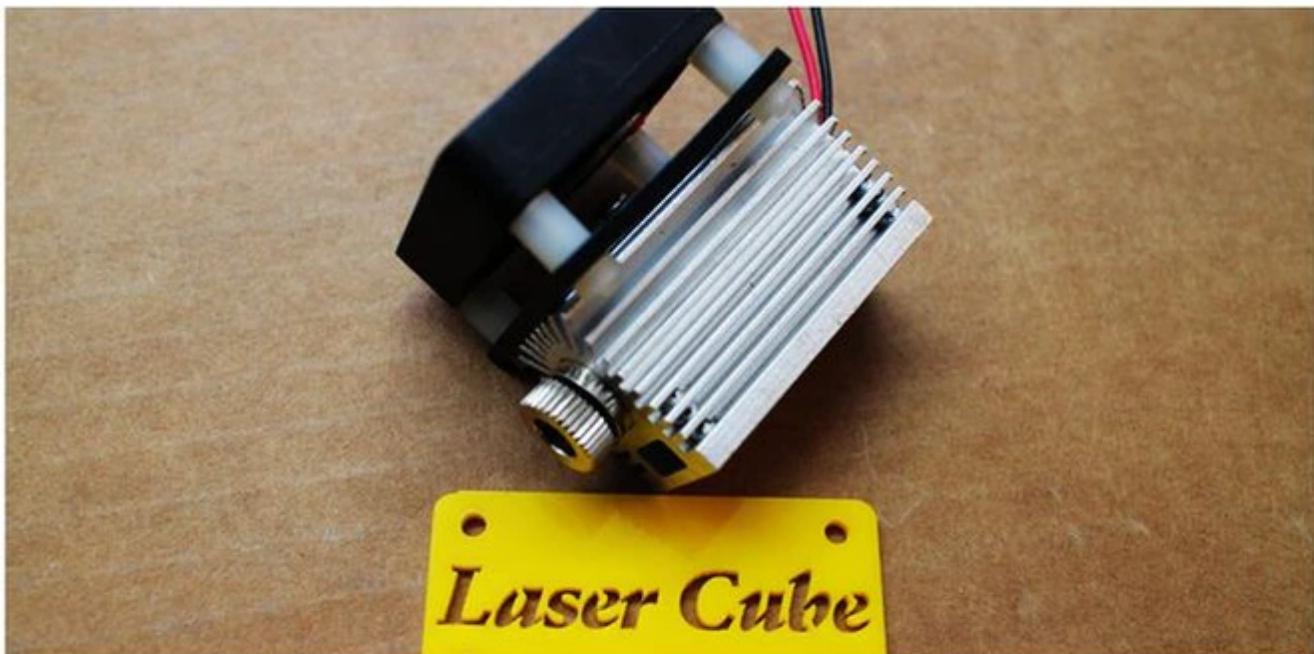
\$35,000 | Thank you all of you ! Backers!

Get to work immediately for some components. The new design heat sink will replace the original one for better thermal transmission or maximum the heat dissipation. You will get some colored foam shape for your project. This apply to pledge \$175 and above.



**\$55,000 | Thanks again for All of our Backers !**

The regular metal screws will be replaced with the ideal connection Nylon screws for your Laser cube.. This will make your Laser cube to be more beautiful and weight light , environment protection , increasing durability,high temperature and chemical resistance and extend its useful life.



# What will we do with your money?

As I mention before, I like more people enjoy the fun from building up their DIY laser cube in easy way. that is why I like to use this platform to be able to provide complete kits with all the necessities. To be able to get a considerable components, I need your monies to make that happen.

Of course, We'll put together a kit for you. we are looking forward to our fund raising goal in October , and once movement have been made, we will assemble the kits and make delivery.

If we had enough money , we were plan to make the laser cube more majorization, from its shape to its function. One of our future plan is planning to make no more Shield, but just an super mini higher efficient Adurino board .

## Safety for you

Please wear appropriate eye protection when using the Laser Cube. The laser cutting process also produces fumes that may be toxic from certain materials, such as plastics. You should always aware the harmful from the laser light and its reflections. Make sure the air good enough around your working area . Keep it away from children and other people who are not familiar with using such a cube.

*Duties and Taxes :* Orders shipped outside of the United States may be subject to customs duties, tax and fees or import taxes levied by the destination country. These fees and taxes are not included in the shipping charge. We suggest you contact your local customs office for more information.

## Risques et défis

We have been working closely and building up a strong relationship with our suppliers since the past few years. as other projects may encounter supply break problems, we have confidence to ensure stock and lead-times are within our production requirements; and ensure all the components have been testing and met the highest standard.

we will manage the production by doing parts of the Laser Cubes by ourselves, perform assembly and quality check work. we will ensure our backers will get their rewards in their satisfaction expectation.

[En savoir plus sur la notion de responsabilité sur Kickstarter](#)

Des questions sur ce projet ? [Reportez-vous à la FAQ](#)

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[Signaler ce projet à Kickstarter](#)

## Période de financement

20 sept. 2014 - 23 oct. 2014 (32 jours)

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€ Euro (EUR)

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