# Inventor Series

FLASHFORGE CORPORATION

Create a joyful 3D life with you !

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# Inventor  CE FC

## Totally-enclosed Design & Inner Temperature Controlling System. Perfectly Meet Temperature Requirements of Different Filaments.

## PRINTING

**Printing Technology**
Fused Filament Fabrication
[FFF]

**Build Volume**
230 L X 150 W X 160 H mm
[9.0 X 5.9 X 6.3 in]

**Positioning Precision**
XY: 11 microns [0.0004 in]
Z: 2.5 microns [0.0001 in]

**Filament Diameter**
1.75 mm
[0.069 in]

**Layer Resolution**
50~400 microns
[0.0039~0.019 in]

**Nozzle Diameter**
0.4 mm
[0.015 in]

## MECHANICAL & DIMENSIONS

**Frame & Body**
Plastic Alloy

**Extruder Quantity**
Two

**Product Dimension**
485 x 344 x 382 mm
[19.1 x 13.5 x 15.0 in]

**Product Weight**
14.8 kg
[32.6 lbs]

**Shipping Dimension**
565 x 415 x 500 mm
[22.2 x 16.3 x 19.7 in]

**Shipping Weight**
21.5 kg
[37.8 lbs]

## SOFTWARE & ELECTRICAL

**Software & Firmware**
FlashPrint

**File Type**
Input: STL, OBJ, 3MF, FFP; Output: .g/.gx

**Connectivity**
Wi-Fi, USB Cable, SD Card

**Language Support**
English / German / Japanese / Russian / Italian
Korean / Chinese / Czech

**Operating Systems**
Windows XP / Vista / 7/8/10
Linux / Mac OS X

**AC Input**
100V-240V, 4.5A-2.5A,

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## Less warpping ABS.
## More successful and accurate output.

Temperature is very important for ABS filament printing. Inventor features a closable door and removable top lid to keep out dust and foreign particles, meanwhile eliminates exterior temperature interference. The built-in heat-controlling sensor activates fans automatically to stabilize the printing temperature for high-quality ABS prints.

## Less stringing PLA.
## Smoother curves on finished prints.

Extruded PLA filament need to be cooled down quickly to reduce stringing, strands of plastic on places where the 3D printer shouldn't print, and yield out prints with smoother curves. Five cooling fans will be activated automatically when the temperature in the extruders and chamber reach to certain values. This enables you to end up with great PLA prints.

Turbo Fan

Extruder Fan

Back Fan
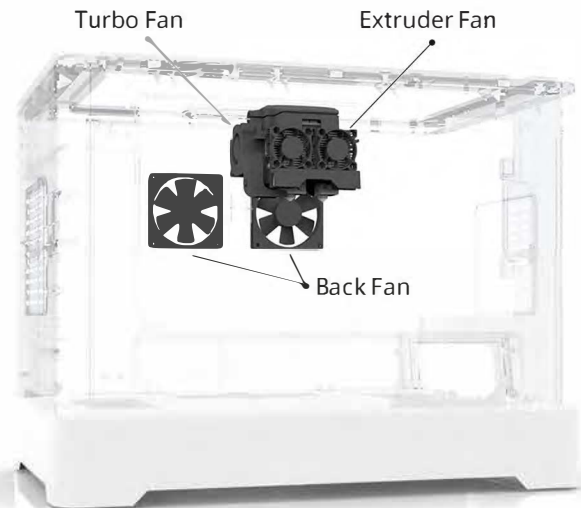
## Not only ABS and PLA,
## but also a wide range of materials.

Inventor comes with proprietary dual extruder and it have both insulation and cooling function . It allows you to print the main part with ABS filament and the support structures with dissolvable filament which can be melt in lemon bathe. And this gives you solid infill for delicate overhangs and objects with internal moving parts. Also it can be tuned to print with a wide range of experimental materials such as Flex, and composite materials such as woodFill.
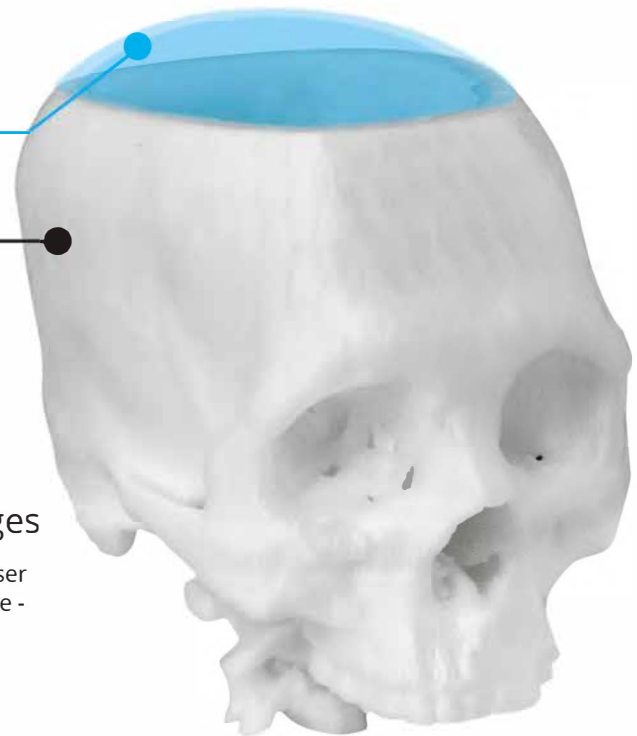
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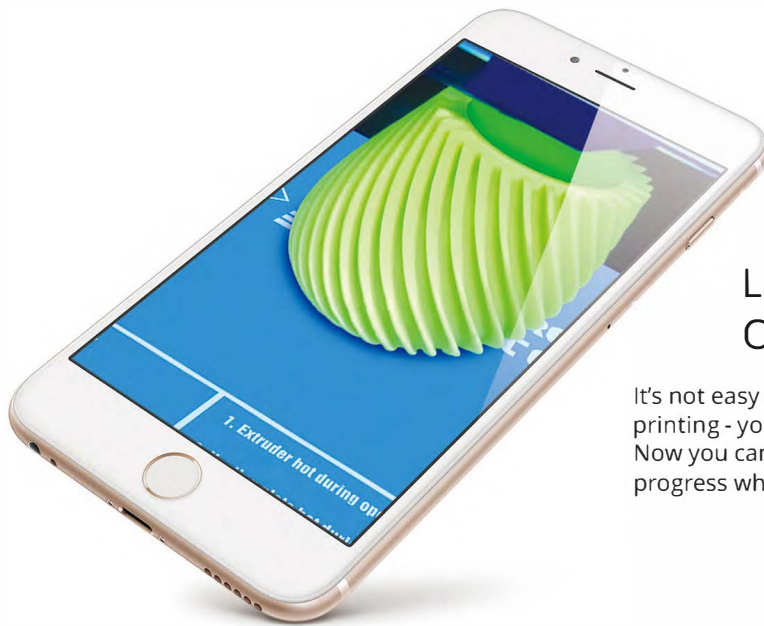
Build-in Camera

## Live printing -
## Observe your model in real time

It's not easy to observe a model which requires 30 hours or more of printing - you won't know how the printing is going.
Now you can use the built-in camera and the APP to monitor the printing progress when you're away from the printer.

Missing Part

Printed Part

## Resume printing from power failure
## No longer afraid of unexpected power outages

Resuming printing from power failure function greatly improves user experience. No more failed prints due to unexpected power outage - resume printing right after you turn on the machine.

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# Top-quality components.
# Advanced assembly lines.

From the outside in, all major parts such as motors and power supply are from world's top suppliers, and all plastic parts are injection molded. These bring a consistent and stable Inventor. We set rigorous standards for assembly lines, where each machine is tested over 48hrs for top quality.

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# Inventor II

iF DESIGN AWARD 2016  CE  FC  Product RoHS

## Safe, Easy to use and Cost-effective 3D Printer.

### PRINTING

Printing Technology
Fused Filament Fabrication
[FFF]

Build Volume
150 L X 140 W X 140 H mm
[5.9 X 5.5 X 5.5 in]

Positioning Precision
XY: 11 microns [0.0004 in]
Z: 2.5 microns [0.0001 in]

Filament Diameter
1.75 mm
[0.069 in]

Layer Resolution
50~400 microns
[0.0039~0.019 in]

Nozzle Diameter
0.4 mm
[0.015 in]

### MECHANICAL & DIMENSIONS

Frame & Body
Plastic Alloy

Extruder Quantity
One

Product Dimension
420 x 420 x 570 mm
[16.5 x 16.5 x 22.4 in]

### SOFTWARE & ELECTRICAL

Software & Firmware
FlashPrint

File Type
Input: STL, OBJ, 3MF, FFP, Jpeg,
BMP, Png; Output: .g/.gx

Connectivity
Wi-Fi, USB Cable, SD Card

Language Support
English / German / Japanese / French / Italian
Korean / Chinese / Czech

Operating Systems
Windows XP  / Vista / 7/8/10
Linux / Mac OS X

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## 2nd generation wireless connection. More stable.

Inventor II features the 2nd generation Wi-Fi connection with more stable wireless file transmission. And now you can send 3D files from your computer to Inventor II memory with your own Wi-Fi network under AP or STA modes. USB stick is another stable way to transfer files. No USB cable, no interruption even when your computer runs into standby.

## Intelligent Door

The intelligent sensor door makes the machine even safer for kids. The printing automatically pauses when you open the door, and it resumes when the door is closed.

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## Removable & magnetic platform

Removable and magnetic platform,with flexible metal sheet on it, not only could be used as operating platform, but also facilitates the remove of objects.

Build Tape

Flexible Metal

Magnetic Platform
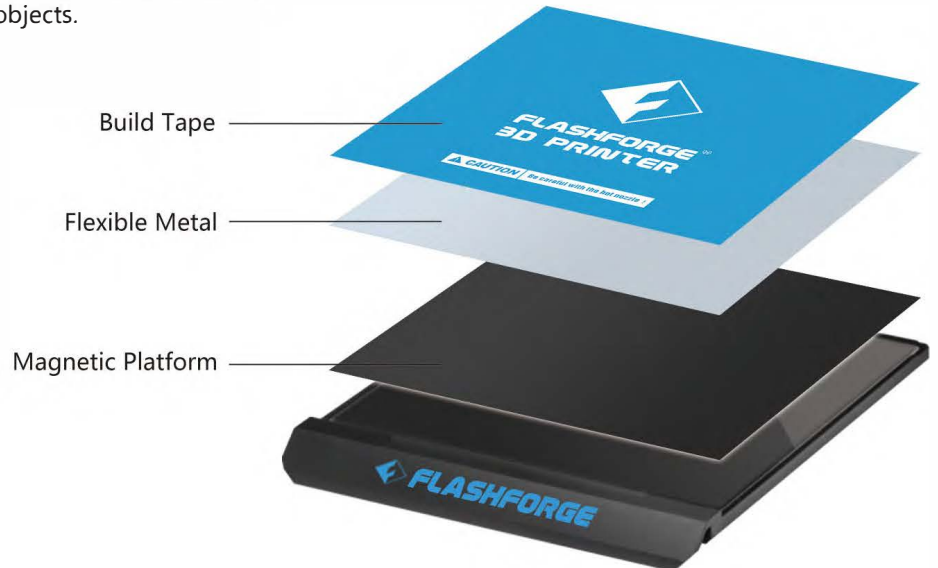
## Built-in camera

Built-in high-definition camera. Enables users to check printing condition at any time even if you are not in front of the printer.

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Noise level

50 DB

## Clean. Quiet. Contained.

Inventor II is designed for kids and novices. We hope you can have a blast with this safe 3D printer making practical things to wild imaginative creations. We conceal all the cables within the plastic alloy body. The frame is sleek, without any sharp edge. The hot nozzle is protected from touch, and the build plate is a piece of glass with no heat on it. We keep the noise level as low as 50 dB. All of these thoughtful details make Inventor II a safe 3D printer to play with.

Lid

Adsorption
Cotton

Fan
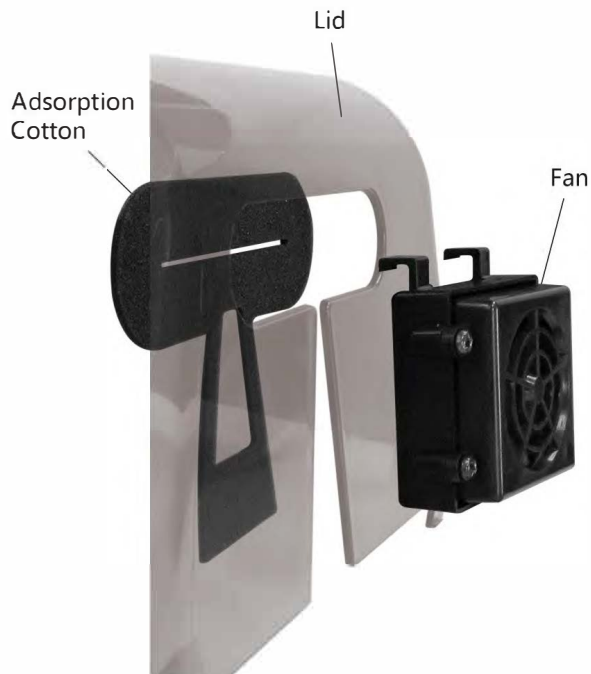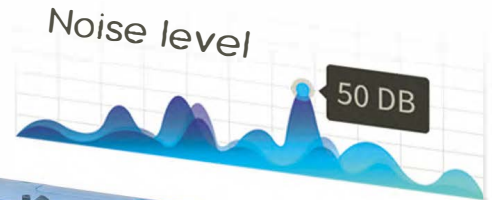
## Air filtration installment

Help to filter tiny particles, and build a security printing environment.

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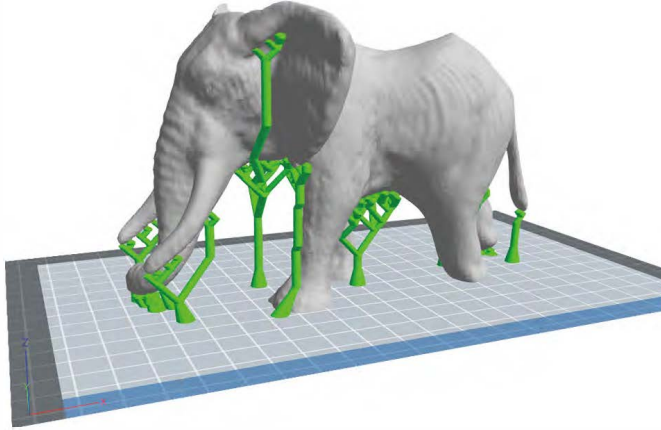


## Smart supports.
## More possibilities.

Support generation doesn't get any easier than this. FlashPrint automatically generates supports based on model's overhang angles. At same time, you can add more necessary supports to output better prints , or remove unnecessary ones to save materials. Dendriform (treelike) supports allow you to print much more complex models, snapping off supports easily without damaging your objects.



## Cut and split. Print bigger model.

Featured with cut and split function, FlashPrint allows you to divide your model into several separate parts when it is too big as for one print. Limited build volume can print bigger models.
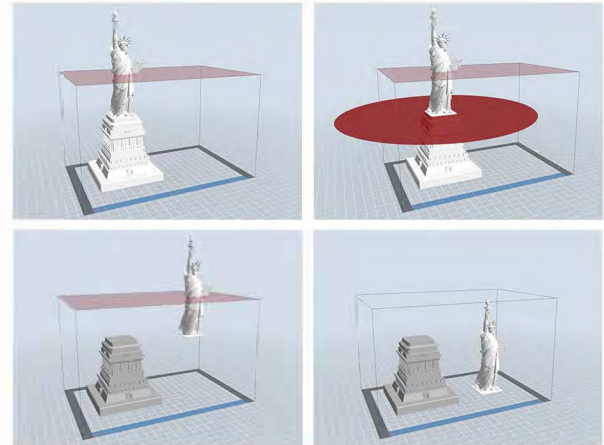


## 2D into 3D.
## Make 3D models from images.

The 2D into 3D featured in FlashPrint allows you to convert 2D image files into 3D models. This is one of the easiest ways to start 3D designing. All you need to do is to drag image and select parameters you want.

# ◆ FLASHFORGE EDUECATION SOLUTION

## Easy-to-use 3D Design Software

Similar to block building, 3D TADA is easy and fun for kids to get started.
Compatible with renowned video game Minecraft – simply print the
exported scenes, or modify the scenes in 3D TADA before printing.

## Integrated Education Solution for 3D Printing

40 3D printing curriculums catered for kids of different ages and capabilities.
Curriculums consist of contents of Science, Technology, Engineering, Mathematics and Art. Integrated
with the concept of STEAM education, the curriculums help kids to explore and create.

## Mature Product Combination

Combine the software, curriculums and accessories kit as total package for education
project, or pick the ones you want independently for individuals.

3D TADA
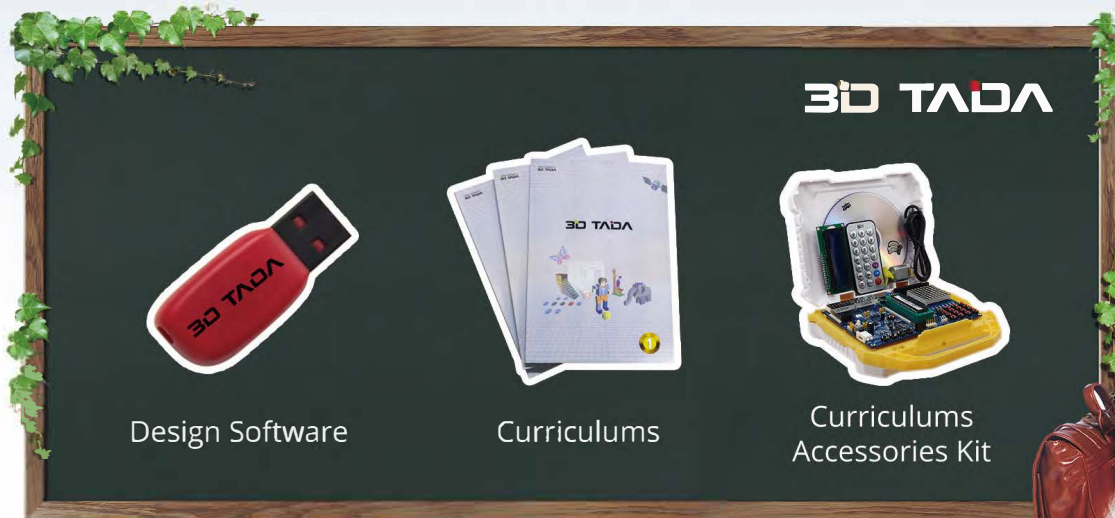
Design Software

Curriculums

Curriculums
Accessories Kit

## Curriculum Examples (From the 40 curriculums)

The Great Wall

Seismograph

Dragon

Solar Street Light

Electric Turtle

# FLASHFORGE 3D PRINTER

# FLASHFORGE International Corp.

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## FLASHFORGE TURKEY

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