

CubeX 3D Printer

Overview

Professional 3D Printer for Office, School, or Home - The CubeX 3D printer is designed to bring your creations to life with professional grade printability for the office, school or home. Declared a 2013 Best of CES Award Winner by CNET, this high-end 3D printer can make objects in up to three different colors, and out of two different plastics. It also lets you build bigger objects than any other printer in its price range.

Largest print size in its class - The CubeX 3D printer lets you print parts as large as a basketball - up to 10.8" x 10.45" x 9.5" or 275 mm x 265 mm x 240 mm. For larger objects, simply print it in separate pieces and attach them together later.

Multi-color printing for all your designs - You can choose to build your creations in multi-colors by using the CubeX Color software and printing with the CubeX Duo or CubeX Trio with multiple print jets. 18 vibrant colors are available in both print materials (ABS & PLA) and over 4000 unique color combinations. (Not all colors are in stock. Ask your sales associate for details.)

Prints with multiple materials too - Choose industrial-grade ABS plastic for extreme durability and functionality, or high-quality, strong PLA plastic for high precision, fine detail and soluble support for ease-of-use. Safe to handle and use.

Ships with Software & Materials - Included is a free license of Cubify Invent (Windows) software, or you can simply export your 3D models to .STL, a format supported by TurboCAD. The CubeX also ships easy to use software that preps files for printing and material to get you started.

10 Creations with every CubeX printer - Your Cube 3D printer comes with 10 amazing 3D files designed by top designers, so you get start printing immediately!

FAQ

What's the CubeX 3D printer? - The CubeX 3D printer is designed to bring your creations to life with professional grade printability for the office, school or home. How does it do that? - The CubeX prints in 3D... which means that instead of putting ink onto a flat surface like regular printing, it builds up material in three dimensions to create a real object. It melts plastic filament, then draws with it in a very fine layer. It then builds another fine layer of plastic on top of this one, and then another, and another, building your idea in slices from the bottom up until you have a plastic object ready to hold. What can I make? - As long as the piece fits into the CubeX print area, you're limited only by your imagination! We've seen people make architectural models, replacement parts, prototypes, jewelry, working gears, rc cars, toys.... and much much more! Any piece will start as a 3D model, which is then printed by the CubeX. What colors can I use? - The filament cartridges



that work with the CubeX come in over 30 colors. (Not all colors are in stock. Ask your sales associate for details.) You can choose to build your creations in multi-colors and materials by using the CubeX Color software and printing with the CubeX Duo or CubeX Trio with multiple print jets.

What material does the CubeX use? - The CubeX prints in ABS plastic and PLA plastic. How big a piece can I make? - CubeX has a print space of 10.8" X 10.45" X 9.5" or 275 mm x 265 mm x 240 mm. How do I get started making stuff? - The CubeX comes with 10 free Professional Grade 3D Models for you to print. You can design your own 3D models using TurboCAD, other supported CAD applications, or the included free license of Cubify Invent. Once you have a model, the CubeX software will turn it into a .cubex that the CubeX can read. How do I get a file to my CubeX for printing? - You can send a file to your CubeX by transferring it using a USB stick.

What's up with the cartridges? - The cartridges are filled with custom ABS plastic or PLA plastic filament, designed to work with the CubeX. Switching them out is a breeze - they snap right in. The CubeX can also tell you how much filament you have left, and won't let you start to print a creation if you don't have enough filament to finish it, to avoid waste.

How long does it take to print a creation? - The print time is proportional to the size and complexity of the creation. An average smartphone case will take about 2-3 hours to print. What's the warranty? - There's a 90 day warranty for parts and labor. Contact CubifySupport@Cubify.com if you have any issues or questions.

What's the return policy? - We don't provide refunds on Cube printers once they're shipped. If you encounter any issues with your printer, it can be repaired for free during the warranty period.

Which files can the CubeX print? - The CubeX can directly print .cubex files. The CubeX software, which comes with the CubeX, can convert .stl and .creation files into .cubex files. Most CAD software (like TurboCAD, Solidworks, ProE, Catia, Alibre, and Rhino) can create .stl files. .Obj files from Maya and ZBrush will need to be converted to .stl files first. There is no limit on the file size, but generally anything over 500MB would be considered really large.

What does the CubeX software do? Does it help me design things to print? - The CubeX software lets you prep an existing 3D model for printing on the CubeX. It lets you orient it, scale it, add supports to it if needed, and then turns the model into a .cubex file that the CubeX can print. You can design your own 3D models using your free license of Cubify Invent.

What operating systems does the CubeX software run on? - The CubeX software works on Windows.

How accurate is the CubeX? - Accuracy of the print is largely dependent on the geometry and orientation. Typical tolerances are around +/-0.5mm for dimensions less than 50mm and +/-1% for features larger than 50mm. If you need more accuracy, you can scale your file (either globally or locally) in your design software to account for the variance. There are no guaranteed tolerances on the CubeX printer.

What is the resolution of parts printed on the CubeX creations? - Choose from HD - High-Def : 100 microns, CD - Crisp-Def : 250 microns or SD - Standard - Def : 500 microns. How do I print peel away supports? - Supports are built with the same ABS or PLA plastic as the creation. The CubeX software will add the needed supports for you in a way that will both minimize material and be easily removable after printing. CubeX supports can be popped off without tools.

Specifications

Weights & Dimensions	CubeX dimensions: without cartridge	515mm (w) x 515mm (l) x 598mm (h) (20 1/4" x 20 1/4" x 23 1/2" inches)
	CubeX weight: CubeX Single head print	36kg (79 Lbs.)
	CubeX weight: CubeX Double head print	37kg (81.5 Lbs.)
	Maximum Build Size CubeX Single head print	275mm (w) x 265mm (l) x 240mm (h) (10.75" x 10.75" x 9.5" inches)
	Maximum Build Size CubeX Double head print	230mm (w) x 265mm (l) x 240mm (h) (9" x 10.75" x 9.5" inches)
	Maximum Build Size CubeX Triple head print	185mm (w) x 265mm (l) x 240mm (h) (7.3" x 10.75" x 9.5" inches)
	CubeX weight: CubeX Triple head print	38kg (84 Lbs.)
Z Axis Resolution	Single head print Double head print Triple head print	0.100mm (0.004" / 100 microns)
Print Tolerance	Single head print Double head print Triple head print	<ul style="list-style-type: none"> ▪ x and y axis +/- 1% of object dimension or +/- 0.2mm (0.008" / 200 microns) whichever is greater ▪ z axis +/- half the processed z resolution ▪ Shrinkage and warpage can occur on models and is purely geometry dependent.
Print Speed Extrude Volume	Single head print Double head print Triple head print	Maximum 15mm3(3/16th"3) per second print and polymer dependent
Power Requirements	Single head print Double head print Triple head print	110 - 240v AC
Maximum Operating Temperature at Extruder Tip	Single head print Double head print Triple head print	280oC (536oF)
Support Material	Single head print Double head print Triple head print	PLA / ABS / Dissolvable Natural PLA
Support Removal	Single head print Double head print Triple head print	Break away support material with pliers and cutters or just fingers where appropriate. PLA plastic is soluble in a sodium hydroxide solution used with a heated ultrasonic tank - care is required with this option.
Software	Description:	<p>All CubeX 3D Printers include complimentary conversion software. This application converts your 3D model into layered slices (G-code), ready for printing on your machine. Other features and uses of CubeX Software include:</p> <ul style="list-style-type: none"> ▪ Clear, familiar and easy to use interface ▪ Scaling, rotation and movement of parts on a simulated print bed ▪ Proven default settings for all CubeX 3D printers ▪ Ability to create custom profiles as needed ▪ Imperial / metric conversion available ▪ Combined part and toolpath viewer ▪ Built-in STL file verification ▪ Profiles for multiple material / support material ▪ Software upgrades can be downloaded from the CubeX Technical Resources hub.

Support

Expert Support - Get expert, responsive, and friendly support for your CubeX 3D printer directly from the manufacturer, 3D Systems. Have a question or need help getting your CubeX 3D printer running? Check out the FAQs, videos, and other troubleshooting materials on these 3D Systems support pages:

Tutorials - http://cubify.com/how_it_works/cubex.aspx

User Guide - http://cubify.s3.amazonaws.com/public/cubex/cubex_user_guide.pdf

FAQs - http://cubify.com/info/faq/faq_cubexprinter.aspx

Support Contact Page - <http://cubify.com/info/support/index.aspx>