3D SYSTEMS University

CubeX Printer

"Lesson – Introduction and Safety,
Features, and Requirements/Unboxing and Setup"

Revision date: 10/21/13

Objectives

After completing this lesson you will:

- Have been introduced to the CubeX 3D printer
- Understand the guidelines for safe operation
- Have learned the features of the printer
- Understand the requirements for hardware and software operation
- Be able to identify the CubeX 3D printer box contents.
- Know how to perform the initial setup

Introduction

The CubeX™ 3D printer enables everybody in the family to express their creativity like never before. With eighteen different material colors to choose from, enjoy the freedom to print in color or mix it up.

Safety

SAFETY GUIDELINES

- Follow all safety rules in this section and observe all cautions and warnings in this guide.
- Do not modify any safety features or make modifications to the CubeX. Doing so is prohibited and voids the warranty.
- Use of print materials other than genuine 3D Systems components may void the warranty.
- Adult supervision is required; observe children closely and intervene as necessary to prevent potential safety problems and ensure the CubeX's appropriate use. Ensure small 3D prints are not accessible to young children.3D prints are potential choking hazards for young children.
- When the CubeX is operating, the tip of the material dispenser (Print Jet) becomes hot; avoid touching this area until it has cooled down.

Hot Surface Hazard: A hot surface is accessible in the vicinity of this sign or at the Print Jet; avoid contact. Hot surfaces can cause severe burns.

Caution: Indicates something may happen that could cause loss of data, damage to equipment, or could cause personal injury.

Caution: Indicates a pinch point hazard that could cause person injury.

Features

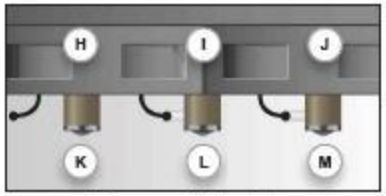
The CubeX 3D Printer creates the model by pulling filament from the cartridge through the print jets via the delivery tubes. The filament is then jetted through the print jet tip in a thin string of molten plastic. The print jet movement is coordinated by the print plate, which lowers incrementally after each layer is deposited so a new layer can be drawn on top of the last, building the part up.

- **CUBEX 3D PRINTER PROPERTIES**
- • Plastic Jet Printing technology
- • Houses up to three print jets for multi-color and multi-material prints
- • Choice between ABS and PLA plastic, both recyclable
- • Prints objects up to 275 x 265 x 240 mm (10.75”x10.5”x9.5”)
- • EZ load print cartridge
- • Fully automated supports: peel off supports for ABS and PLA;

Identifying the Features

Front

Underneath top cover



Top area, inside printer

Bottom

Bottom area, inside printer

- (A) Touchscreen
- (B) Function button
- (C) Jet Wiper
- (D) Z-axis
- (E) Print Pad & Print Plate
- (F) Memory stick USB port and PC connection USB port
- (G) Power supply
- (H) Print Jet 1
- (I) Print Jet 2
- (J) Print Jet 3
- (K) Print Jet Tip 1
- (L) Print Jet Tip 2
- (M) Print Jet Tip 3
- (N) Material Cartridge Bay 1 (for Print Jet 1)
- (O) Material Cartridge Bay 2 (for Print Jet 2)
- (P) Material Cartridge Bay 3 (for Print Jet 3)

Features and Requirements

Weight and dimensions:

- 515mm (w) x 515mm (l) x 598mm (h) (20 ¼" x 20 ¼" x 23 ½" inches)
- 36kg (79 lbs)
- 37kg (81.5 lbs) *Duo*
- 38kg (84 lbs) *Trio*

Minimum hardware requirements (a PC with these minimum requirements will be required to run the software):

- Processor: Multi-core processor - 2GHz or faster per core
- System RAM: 2 GB
- Screen Resolution: 1024x768

PC requirements:

- Microsoft® Windows® 7
- Microsoft® Windows® XP (SP3 or higher)
- Microsoft® Windows® 8

Software:

- CubeX Client Software, available at **Cubify.com**

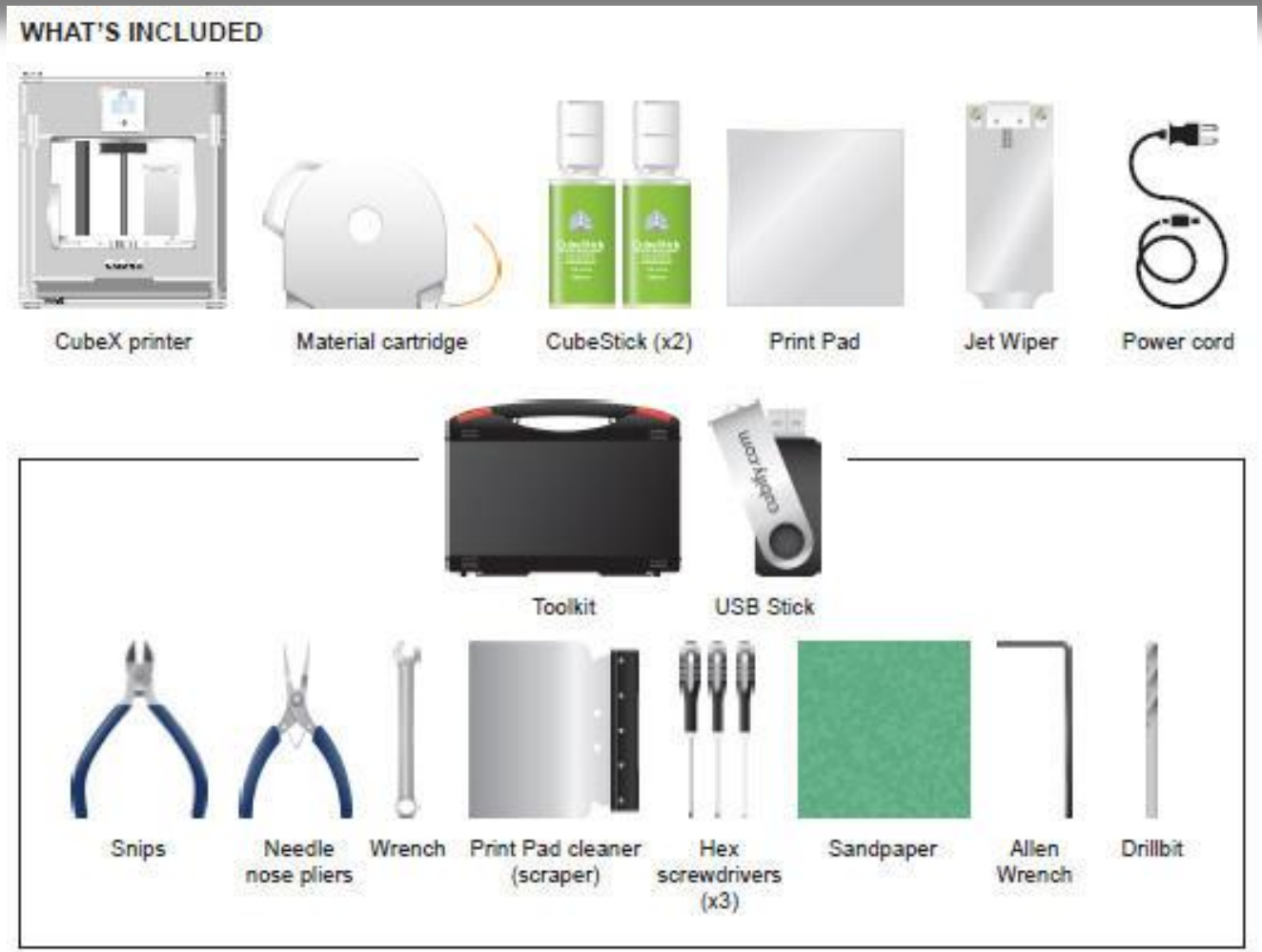
Electrical requirements:

- 110-240v AC

Material storage (although all polymers degrade with time, the following conditions help ensure that the material remains of high quality):

- Unpack material only as needed
- Store material at 10-30°C
- Use within 12 months of receipt

Box contents



Unpacking and Setting up your Cube X

1. Open the box and remove the top acrylic lid located between two layers of foam. Set aside the two foam inserts for future packing.(Fig.1)

2. With two people, remove CubeX from the box, lift from the metal frame on both sides of the printer. Place CubeX on a table.(Fig.2)

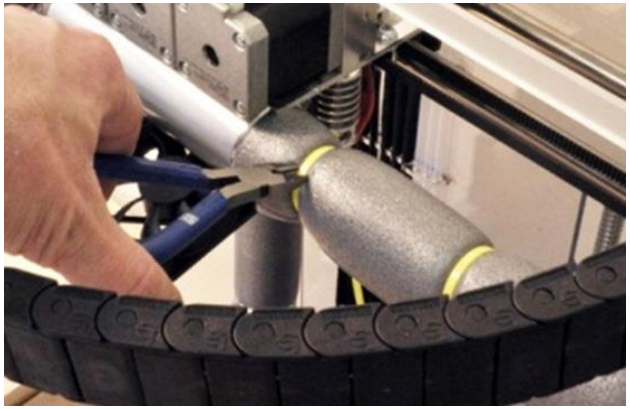
Unpacking and Setting up your Cube X

3. Remove the material cartridges and tool kit from the bottom of box.(Fig.3)

4. Using the snips located in the tool kit, cut blue straps away from cardboard. Cut away all blue zip ties securing the printer carriage. (Fig. 4)

Unpacking and Setting up your Cube X

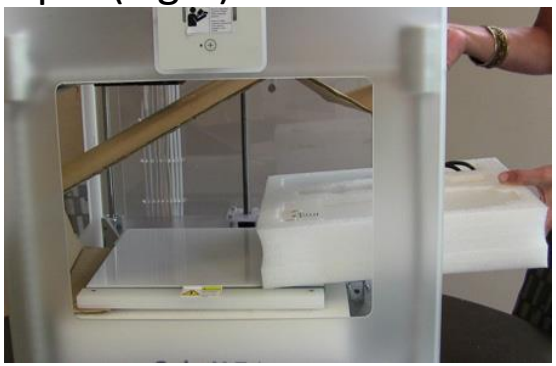
5. Using the snips, cut away all yellow zip ties securing the foam parts in place. Remove foam packing material.(Fig.5)



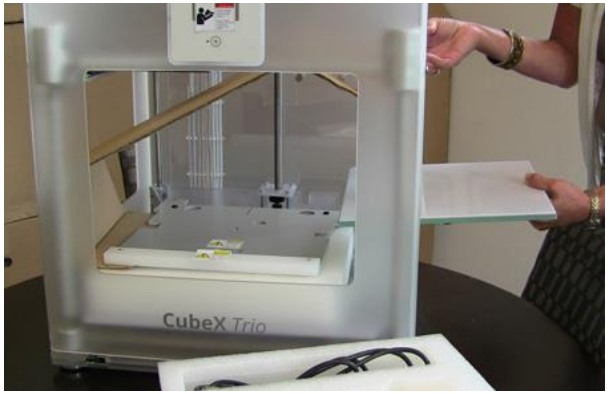
6. Remove all foam fittings. (Fig. 6)

Unpacking and Setting up your Cube X

7. Lift the cardboard piece from the foam package and remove the foam package. This package includes your power cord, Cube Stick glue and the jet wiper.(Fig.7)

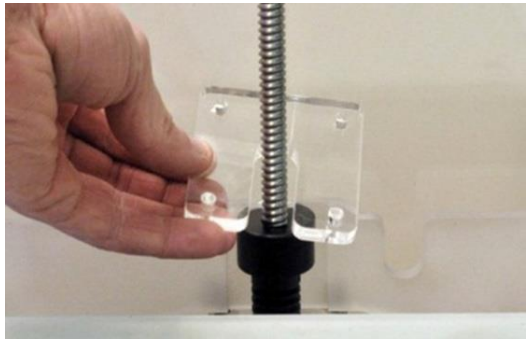


8. Remove print pad from CubeX.(Fig.8)



Unpacking and Setting up your Cube X

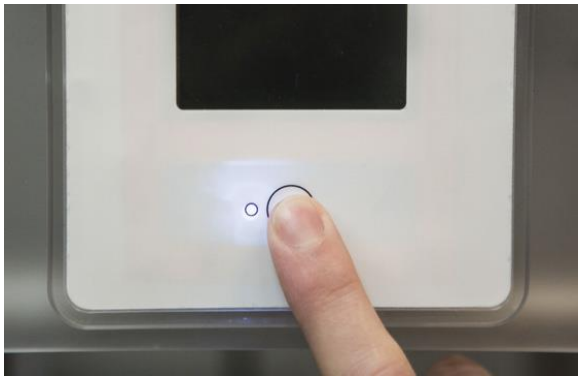
9. Using the 4 x 100 hex screwdriver (located in tool kit), remove plexiglass Z-Axis guard by unbolting the 4 screws holding it in place and remove plexiglass and bolts.(Fig.9)



10. To power on, plug the power cord into the power supply located underneath the printer base. Lift the right side of the printer to gain access to the power supply.(Fig.10)

Unpacking and Setting up your Cube X

11. The LED on the control panel should light up indicating the printer has power. Remove the “Warning” label from the touchscreen.(Fig.11)



12. Press the Control button, the CubeX Activation Screen will appear. You will need to register and activate your CubeX to unlock the printer.(Fig.12)