

# Quick Start Guide



## Full Instructions

You can find the **full and latest instructions**, available in English and many other languages, on our **Help Center** website: [support.flux3dp.com/hc](https://support.flux3dp.com/hc)

**ador**

Quick Start Guide

**FLUX Inc.**

1F., No.79-3, Ln.209, Sec.2, Xinnong St.,  
Yangmei Dist., Taoyuan City 326015, Taiwan

Bring Your Designs to Life

# FLUX Ador Quick Start Guide

Thank you for choosing FLUX products.

**This quick start guide will help you set up your FLUX Ador for first use.**

Meet FLUX Ador, the world's first color-printing laser cutter. Boasting three high-quality, interchangeable laser module—diode laser, infrared laser, and printing module. Ador enables you to both engrave and cut through a wide range of materials while enhancing your projects with a pop of color. Designed with a user-friendly interface, Ador is the ideal laser creation tool for professionals and an excellent starting point for beginners venturing into their artistic exploration. With unlimited possibilities at your fingertips, begin your journey into laser crafting with Ador now.

\* The infrared laser and printing modules are optional add-ons.

\* Please retain all packages for warranty purposes.

The latest version of the Quick Start Guide is available at the following URL:  
<https://support.flux3dp.com/ador>

## What's in the box?

### | Accessories

- ◆ Laser module
- ◆ Vent hose
- ◆ Clamp
- ◆ Power adapter
- ◆ Power cord
- ◆ USB cable
- ◆ Prism Lift x6

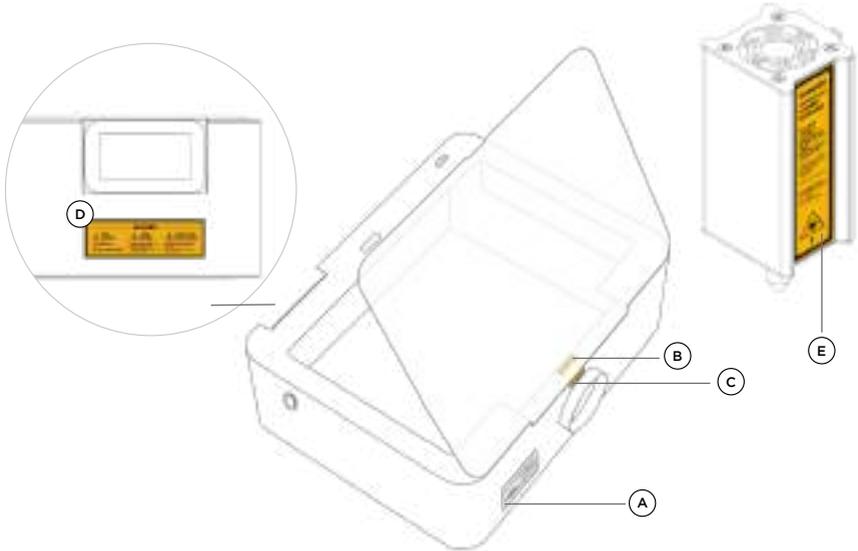
### | Tool

- ◆ Hex wrench

### | Consumables

- ◆ Lubricating oil
- ◆ Wood piece

# Product & Warning labels



**A**

		Input: 24V 7A Model Number: ADO1 Rated: 168W Product Name: Laser Cutter-Center Printer
Manufactured Date: Sep 2023		CLASS 4 LASER PRODUCT COVERING LASER PRODUCT CLASSIFIED IEC 60825-1:2014 & EN 60825:2011 Complies with 21 EPR Chapter 3, SalesChapter JT
Serial Number ADOXXXXXXX		
Designed by FLUX INC. 16, MA, 78-3, Ln. 209, Sec. 2, Hefei, Anhui, Yangshan Dist., Tianshan City 230025, Taiwan Made in China		CE FC

fluxsep.com

**B**

**LASER HAZARD**  
 CLASS 4 VISIBLE LASER RADIATION  
 WHEN OPEN AND INTERLOCKS DEFEATED  
Prohibit eye or skin exposure to direct or scattered radiation

**C**

**CAUTION**  
 Do not do work here before  
 using the machine.

**D**

**DANGER**

<p><b>FIRE HAZARD</b>                  DO NOT REPAIRY                  PACKING UNIT/TRENDS  <small>Refer to the user manual for additional                  information regarding retractor safety.</small></p>	<p><b>LASER HAZARD</b>                  CLASS 4 VISIBLE LASER                  RADIATION WHEN OPEN AND                  INTERLOCKS DEFEATED  <small>Prohibit eye or skin exposure to direct or                  scattered radiation.</small></p>	<p><b>ULTRAVIOLET                  LIGHT HAZARD</b>                  DO NOT REPAIRY                  CLASS 4 VISIBLE LASER                  RADIATION WHEN OPEN AND                  INTERLOCKS DEFEATED  <small>Prohibit eye or skin exposure to direct or                  scattered radiation.</small></p>
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**E**

**DANGER**

**LASER HAZARD**

CLASS 4  
 VISIBLE  
 LASER  
 RADIATION  
 WHEN OPEN  
 AND  
 INTERLOCKS  
 DEFEATED

Avoid eye or skin  
 exposure to direct  
 or scattered  
 radiation

Complies with  
 IEC 60825-1:2014  
 EN 60825-1:2014  
 & EN 60825-2:2011

↓

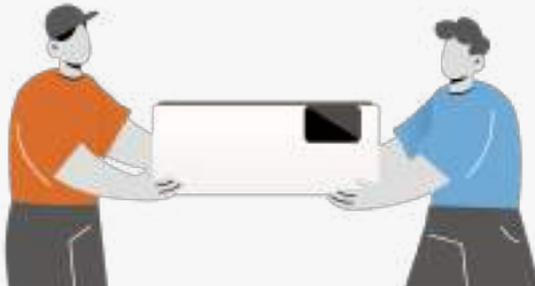
# Safety Precautions

## | Safety Precautions

- ⚠ Do not let minors operate alone.
- ⚠ Confirm that the person who intends to operate the machine has read the safety precautions carefully and followed the instructions in the manual.
- ⚠ Make sure to install the vent hose properly. An exhaust hose missing or not installed properly will increase the risk of laser, fumes, and dust hazards.
- ⚠ Do not modify the machine without FLUX authorization.
- ⚠ Do not try to modify, defeat or disassemble safety interlocks.
- ⚠ Do not place the machine in a humid, splashing rain or direct sunlight space. In case of rain or extreme weather, please stop using the machine and put the vent hose inside.
- ⚠ Do not place liquid, flammable, or explosive objects near the machine.
- ⚠ Do not place any living beings in the machine. It is strictly prohibited.
- ⚠ There are no noise hazard concerns as the Ador's working level is below 70 dB.

## | Machine Handling

The Ador weighs 19 kilograms. It is recommended to have two people lift it cooperatively to avoid injury.



## | Fire Hazard

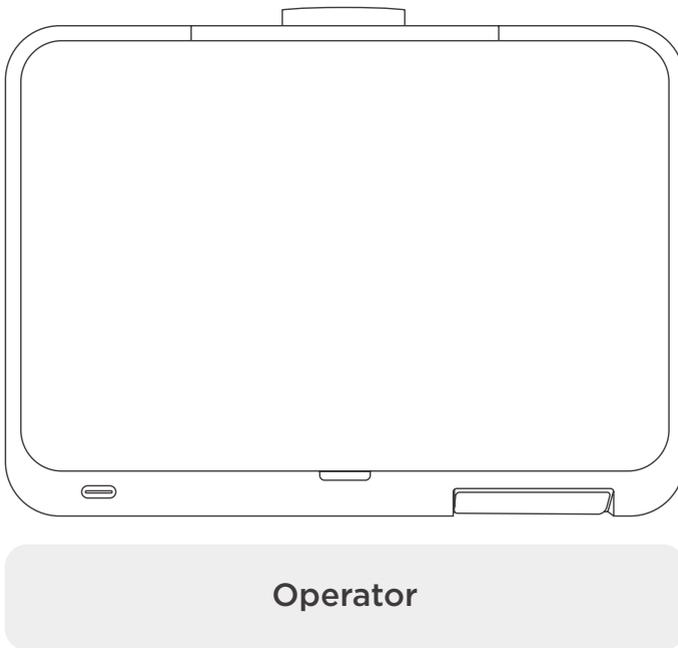
- ⚠ Do not leave the machine unattended while in use.
- ⚠ Regularly clean the debris inside the Ador.
- ⚠ In case of fire, turn off the power immediately and unplug the power cord.
- ⚠ Always have an accessible, functioning fire extinguisher in the workplace.
- ⚠ Confirm that the engraving material does not pose any higher risk when burned at high temperatures.

## | Laser Safety

FLUX Ador is a Class 1 Laser Product and a Consumer Laser Product, complying with the IEC 60825-1:2014 and EN 50689:2021 certifications. The IEC 60825-1:2014 standard categorizes laser systems into eight safety classes: 1, 1C, 1M, 2, 2M, 3R, 3B, and 4. FLUX Ador is the Class 1 Laser Product, the safest among all classes, and aligns with the laser safety standards set by the International Electrotechnical Commission (IEC). EN 50689:2021 is a laser safety standard designed explicitly for consumer laser products. It guarantees that lasers with this certification meet the highest safety standards for consumer use. These assurances are provided through the laser's enclosed protective housing and interlocks safety devices.

\* For further information, please refer to the safety precautions on the "Ador Help Center".

## | Work Position of Operator



# Assembly



Take out the Accessories Box and remove two fastened hand screws (A) on both sides of the X-rails and cushioning materials (B) in the machine.

\* You can place two hand screws in the (C) screw holes. (Optional)



Install the Laser Module.

1. Loosen the hand screw (A) on the module adapter (B) .
2. Aim the dot (C) on the laser module to the unlock icon (D) on the module adapter and insert it down to the lock icon.
3. Press the module with your hand and ensure it's tightly attached to the module adapter before fastening the hand screw (A) back.



Install the vent hose.

1. Loosen the clamp on the exhaust fan cover using a Phillips screwdriver and remove the cover.
2. Remove the cushioning material in the vent hose.
3. Insert the clamp on the large end of the vent hose hole, and attach it to the exhaust fan outlet at the rear of the machine.
4. Adjust the clamp tightness and fasten it onto the exhaust fan outlet.
5. Direct the open end of the vent hose outside the window or connect it to an air purifier.



Connect the power cord (A) and the power adapter (B) . Connect both ends of the power adapter to the power port (C) at the rear side of the machine and insert the plug into the socket. Switch on the main switch (D) located at the rear of the machine to turn on the machine.

\* For more information please refer to the "Start" chapter on the "Ador Help Center."

# Setup for the First Use



1. Follow the guide on the machine display to select your language.



2. Read the Safety Precautions carefully.

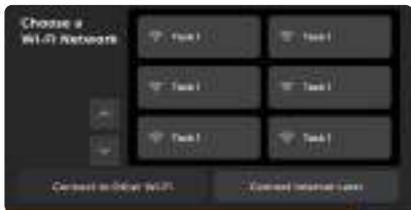


3. Follow the instruction and run the Start-up Test.

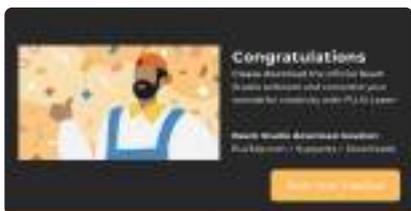
\* Do not skip the Start-up Test if this is the first time using the machine.



4. Following the step-by-step instructions, the Start-up Test will guide you through installing the laser module and checking the door interlocks, autofocus, motors, limit switches, and module connection.



5. Follow the guide on the machine display to set the Wi-Fi connection (2.4 GHz), or connect with an ethernet cable to your router and select connect later.



6. Download the latest stable version of Beam Studio on your computer. <https://flux3dp.com/downloads> Select the language on Beam Studio and follow the Connection Setup.

\* Check the "Ador Help Center" if you encountered any issues running the Start-up Test.

\* Beam Studio for mobile devices: <http://studio.flux3dp.com>

7. Follow the software tutorial. You can initiate it by accessing the tutorial in the "Help" menu if you accidentally skip it.

# Declaration of Conformity

**FLUX**

**EU DECLARATION OF CONFORMITY (English)**

This declaration of conformity is based on the sole responsibility of the manufacturer.

**Required Information:**

Product Name: Laser Cutting Core Printer  
Model: ABC1  
Trade Mark: FLUX  
Function: The machine is designed and built by flux laser to cutting and printing various materials.  
Photo of Product:

**Manufacturer:**

Company Name: FLUX Inc.  
Address: 17 Ave. 75.0, st. 200, Box 2, Srinagar, Yagosa City, Sagarin City, 45678, Taiwan  
Contact: JIN FU  
Email: jingfu@flux.com  
Telephone: 086-2-695-7191

**EC Responsible Person:**

Company Name: E-ROHS AG (Germany) AG  
Address: Beethoven Str. 3, Coesfeld (ROHS), Deutschland  
Contact: Christopher Jahn  
Email: cja@e-rohs.com  
Telephone: +49 51 111 1882

The object of the declaration described above is in conformity with the relevant Community harmonization legislation (EU Directives):

EMC: 2014/53/EU  
LVD: 2006/95/EC  
RoHS: 2002/95/EC  
PPE: 2011/35/EU (PPE) & (EU) 2011/35/EU  
Scaff: (EU) 2010/64/EU  
RED: 2014/53/EU

References to the relevant standards used in reference to the specifications in relation to which conformity is declared:

EN 60950-1:2006, EN 60950-2:2006, EN 60950-3:2006, EN 60950-4:2006, EN 60950-5:2006, EN 60950-6:2006, EN 60950-7:2006, EN 60950-8:2006, EN 60950-9:2006, EN 60950-10:2006, EN 60950-11:2006, EN 60950-12:2006, EN 60950-13:2006, EN 60950-14:2006, EN 60950-15:2006, EN 60950-16:2006, EN 60950-17:2006, EN 60950-18:2006, EN 60950-19:2006, EN 60950-20:2006, EN 60950-21:2006, EN 60950-22:2006, EN 60950-23:2006, EN 60950-24:2006, EN 60950-25:2006, EN 60950-26:2006, EN 60950-27:2006, EN 60950-28:2006, EN 60950-29:2006, EN 60950-30:2006, EN 60950-31:2006, EN 60950-32:2006, EN 60950-33:2006, EN 60950-34:2006, EN 60950-35:2006, EN 60950-36:2006, EN 60950-37:2006, EN 60950-38:2006, EN 60950-39:2006, EN 60950-40:2006, EN 60950-41:2006, EN 60950-42:2006, EN 60950-43:2006, EN 60950-44:2006, EN 60950-45:2006, EN 60950-46:2006, EN 60950-47:2006, EN 60950-48:2006, EN 60950-49:2006, EN 60950-50:2006, EN 60950-51:2006, EN 60950-52:2006, EN 60950-53:2006, EN 60950-54:2006, EN 60950-55:2006, EN 60950-56:2006, EN 60950-57:2006, EN 60950-58:2006, EN 60950-59:2006, EN 60950-60:2006, EN 60950-61:2006, EN 60950-62:2006, EN 60950-63:2006, EN 60950-64:2006, EN 60950-65:2006, EN 60950-66:2006, EN 60950-67:2006, EN 60950-68:2006, EN 60950-69:2006, EN 60950-70:2006, EN 60950-71:2006, EN 60950-72:2006, EN 60950-73:2006, EN 60950-74:2006, EN 60950-75:2006, EN 60950-76:2006, EN 60950-77:2006, EN 60950-78:2006, EN 60950-79:2006, EN 60950-80:2006, EN 60950-81:2006, EN 60950-82:2006, EN 60950-83:2006, EN 60950-84:2006, EN 60950-85:2006, EN 60950-86:2006, EN 60950-87:2006, EN 60950-88:2006, EN 60950-89:2006, EN 60950-90:2006, EN 60950-91:2006, EN 60950-92:2006, EN 60950-93:2006, EN 60950-94:2006, EN 60950-95:2006, EN 60950-96:2006, EN 60950-97:2006, EN 60950-98:2006, EN 60950-99:2006, EN 60950-100:2006

Name/ Title: JIN FU / Chief Technology Officer (CTO)

Place / Date: Sagarin City, Taiwan / Aug 10, 2021

Signature:

FLUX

The latest version of the EU declaration of conformity is available at the following URL: <https://flux3dp.com/declaration>

# Warranty

The latest version of the warranty will be uploaded at the following URL:  
<https://support.flux3dp.com/hc/en-us/categories/202672617>

As a FLUX consumer, you benefit under certain conditions from additional warranties. FLUX offers specific consumer warranty benefits which are in addition to, and not instead of, any legal warranties provided by your national consumer law. The duration and conditions related to the legal warranties are provided by respective local laws.

## | Hardware Warranty

1. FLUX Inc. warrants only the hardware (excluding accessories and consumable parts\*) against defects in materials and workmanship when used as instructed in the manual for the warranty period.
2. The limited warranty covers products purchased from authorized FLUX retailers against defects in materials or workmanship.
3. Customers must provide the machine serial number and related information as proof of purchase.
  - \* Prior to returning any products, customers must receive an approval of shipping from our authorized reseller via email or phone. We will not accept any unapproved returned goods.
4. During the product's warranty period, FLUX may, at its discretion, take one or more of the following actions: (1) send parts to customer along with tutorials for repair, (2) approved return of the product to an authorized local reseller for (a) repair with new or refurbished parts or (b) replacement with a new or refurbished product provided that:
  - The product was properly used according to the manufacturer's intended purposes and instructions.
  - The product was not damaged due to acts of nature such as lightning, flood, or fire.
  - The product's casing was never disassembled without permission.
  - \* Note: Particles, scratches, unevenness, or other appearance issues which do not affect the function of the machine are not covered under the warranty.

5. Original packaging is required to claim warranty; shipping in any other packaging will not be accepted. We advise you to keep the original packaging for possible return. If there is a need for an original package, please contact our authorized local reseller for detailed purchase information.

## | Warranty Period

Warranty period starts at the time of customer receives the product. Please see the chart below for the warranty periods:

- ◆ **Ador** ————— 12 months
- ◆ **10W/20W Diode Laser Module** ——— 12 months
- ◆ **2W Infrared Laser Module** ————— 12 months
- ◆ **Printing Module** ————— 12 months
- ◆ **Ink Cartridges** ————— The warranty is not applicable under the regular use of consumables.
- ◆ **Rotary & Extension Base** ————— 12 months
- ◆ **Extension Base** ————— 12 months

## | Post Warranty Support and Repair

1. FLUX will continue to provide tech support via phone, email, and other online methods even after the product warranty period.
2. After the warranty period, all costs—including but not limited to replacement parts, shipping charges, and testing fees—are the sole responsibility of the customer.
3. Our authorized resellers may provide a quote for repairs.

# Disclaimer

The latest version of the Disclaimer will be uploaded at the following URL:  
<https://support.flux3dp.com/hc/en-us/categories/202672617>

1. FLUX Inc. does not warrant against normal wear and tear, items consumed or expended by their normal use, product misuse, or accidental damage.
2. FLUX is not liable under this warranty for any damages or defects caused by :
  - (1) Improper (contrary to the stated purpose and scope of use described in relevant documentation) use of Products or Add-ons;
  - (2) External force;
  - (3) External or internal moisture;
  - (4) Lightning strike, overvoltage, power surge, or electromagnetic field.
  - (5) Unauthorized change, correction, or modification. Modification of the hardware or accessories, including but not limited to replacing parts, making permanent cosmetic changes to the machine, replacing the software or firmware, or other unauthorized changes voids this warranty policy.
  - (6) Natural or human-caused calamities such as earthquake, war, fire, and flood.
  - (7) Improper storage, operation, application, or transportation.

## Collection and Treatment



This symbol indicates that this product should not be disposed of with household waste. It has to be returned to a local authorized collection system. By following this procedure, you will contribute to the protection of the environment and human health. The recycling of the materials will help to conserve natural resources.

**\* Valid in the EU member states and in any country with corresponding legislation.**



# **ador Quick Start Guide**

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