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## ELEGOO Centauri Carbon 2 Combo

# ELEGOO Centauri Carbon 2 Combo 3D Printer Instruction Manual

Model: Centauri Carbon 2 Combo

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## 1. INTRODUCTION

Welcome to the world of advanced 3D printing with the ELEGOO Centauri Carbon 2 Combo Multi Color 3D Printer. This manual provides essential information for setting up, operating, and maintaining your new 3D printer to ensure optimal performance and longevity. The Centauri Carbon 2 Combo features CoreXY high-speed multicolor printing with CANVAS, 1-click full auto leveling, and a 350°C high-temperature nozzle, offering a build volume of 256x256x256mm.

## 2. SAFETY INFORMATION

- Always operate the printer in a well-ventilated area.
- Keep hands clear of moving parts during operation.
- The nozzle and heated bed can reach high temperatures. Avoid direct contact to prevent burns.
- Ensure the printer is placed on a stable, level surface.
- Do not leave the printer unattended during long print jobs.
- Use only recommended filaments and power supplies.
- Keep out of reach of children and pets.

## 3. WHAT'S IN THE BOX

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Upon unboxing, please verify that all components are present:

- Centauri Carbon 2 Combo x1
- Touch Screen x1
- Power Cord x1
- 4-Pin Cable x1
- USB Flash Drive x1
- Nozzle Wiper Assembly x1
- Spool Holder Module x4
- Filament Hub x1
- CANVAS Mounting Bracket x1
- Thermal Cover x1
- PTFE Tube x4
- Unclogging Pin x1
- Allen Key x1
- Screwdriver x1
- Scraper Blade x1
- Filament Sample x1
- Spare Nozzle Wiper x1
- User Manual x1

## 4. SETUP

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### 4.1 Physical Dimensions and Placement

Before assembly, ensure you have adequate space for the printer. The ELEGOO Centauri Carbon 2 Combo requires approximately 29 inches of vertical clearance to accommodate the CANVAS system and allow for lid removal. The front-to-back depth is about 16 inches, with an additional 3 inches needed for filament spools and cable management at the rear. The total width, including spool holders, is approximately 22-23 inches.

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*Video: Critical Measurements - Will the CC2 fit in YOUR space? This video demonstrates the physical dimensions of the Centauri Carbon 2 Combo, including vertical clearance needed for the CANVAS system and space for filament spools.*

### 4.2 Initial Assembly and Self-Check

The printer comes partially assembled. Follow the Quick Start Guide for detailed instructions on attaching the touch screen, filament spool holders, and other components. After physical assembly, the printer will perform an automatic device self-check, including nozzle heating, heated bed heating, fan checks, input shaping, and automatic leveling.

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*Video: Watch the Device Self Check start on the CC2 vs CC1. This video shows the printer's automatic self-check process upon*

initial setup.

### 4.3 Loading Filament with CANVAS

The Centauri Carbon 2 Combo utilizes the CANVAS system for multi-color printing. Each filament spool holder is numbered (1-4) and corresponds to an input port on the CANVAS unit. When loading new filament, ensure the end is cut at a 45-degree angle for easier feeding. Insert the filament into the corresponding port on the CANVAS unit. The system will automatically detect and pull the filament. For non-RFID filaments, you will need to manually select the brand, type, and color on the touchscreen.

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*Video: Don't get this wrong like I did - CC2 loading filament. This video provides a step-by-step guide on correctly loading filament into the CANVAS system.*

## 5. OPERATION

### 5.1 4-Color Printing with CANVAS

The CANVAS system enables seamless 4-color printing with instant color switching and smart RFID filament detection. It also features auto-refill and tangle detection to ensure smooth, hassle-free multicolor printing. The printer can automatically purge and swap filaments as needed during a print job to achieve multi-color designs.



*Image: The ELEGOO CANVAS system, illustrating its capability for 4-color printing with instant color switching, RFID filament detection, auto-refill, and tangle prevention.*

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*Video: Watch my first multi color print? This video demonstrates the printer's ability to execute multi-color prints, showcasing the filament changes during the process.*

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*Video: Multicolor printing on the Centauri Carbon 2 3D printer. This video highlights the printer's multi-color printing capabilities in action.*

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Video: Watch the CC2 AMS swapping between filaments. This video illustrates the automatic filament swapping mechanism of the CANVAS system.

## 5.2 Material Versatility

The Centauri Carbon 2 Combo supports a wide range of materials, from basic PLA to engineering-grade filaments, thanks to its advanced process and temperature control, including a 350°C high-temp nozzle and 110°C heated bed. This allows for printing with materials like PLA, ABS, TPU, PLA-CF, and more.



Image: Redefining Material Versatility. This image highlights the printer's capability to handle various filament types, from standard to engineering-grade.



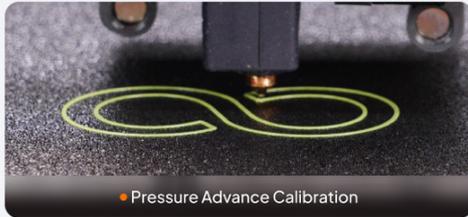
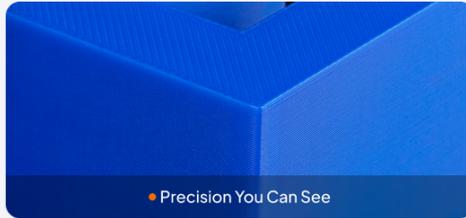
Image: Examples of prints made with PLA, ABS, and TPU filaments, demonstrating the printer's material compatibility.

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Video: Custom multi-color 3D prints on the CC2. This video showcases various objects printed with different materials and colors, highlighting the printer's versatility.

## 5.3 High-Speed and Precision Printing

Designed for speed, the Centauri Carbon 2 Combo achieves print speeds up to 500mm/s and acceleration of 20,000mm/s<sup>2</sup>. Its advanced CoreXY system and rigid aluminum frame ensure fast, precise, and stable prints. Features like active vibration compensation and smart calibration contribute to smoother surfaces and crisp details.



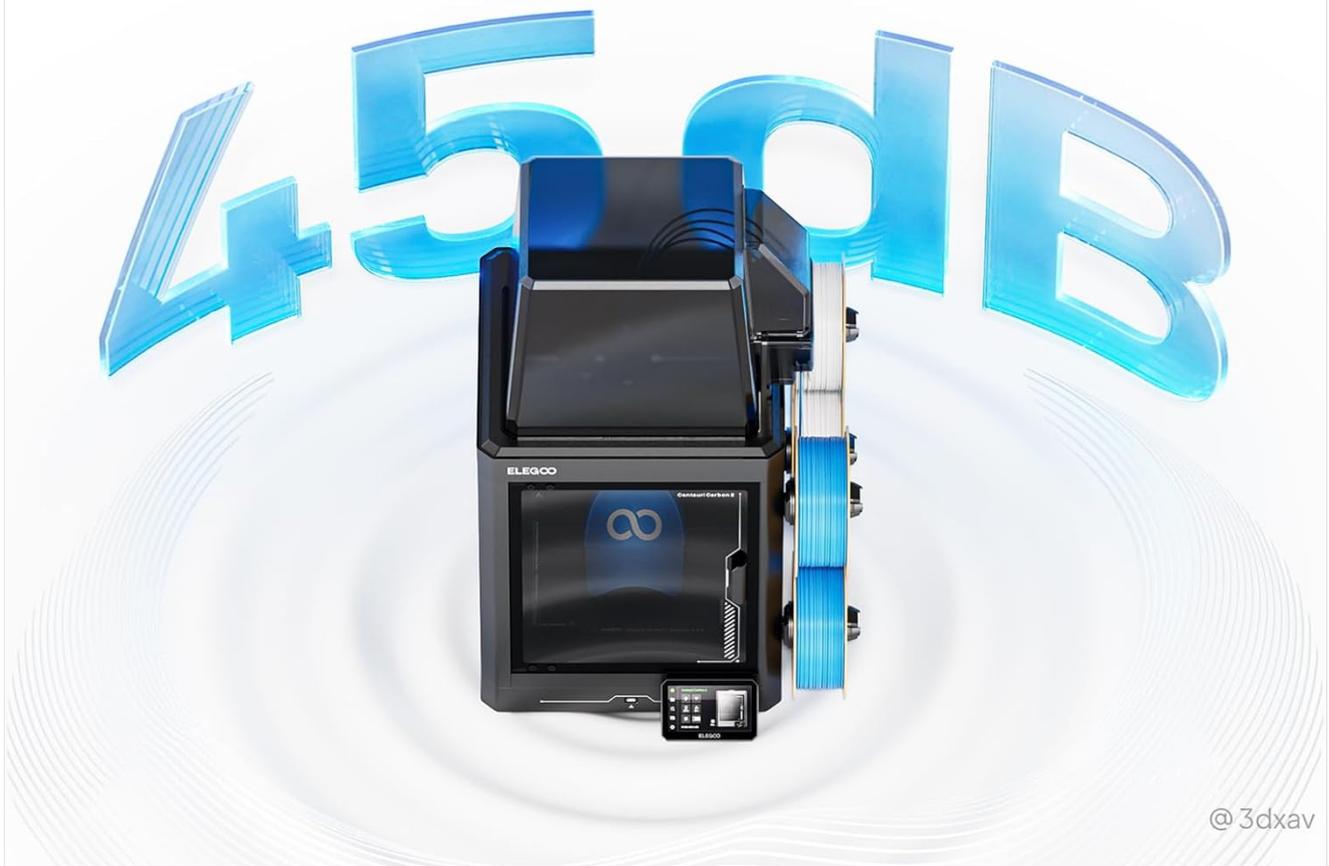
*Image: Flawless at Speed. This image illustrates the printer's ability to maintain high quality even at high printing speeds.*

## 5.4 Quiet Operation

The printer is engineered to operate at a whisper-quiet 45 dB, making it suitable for shared spaces without causing disturbance.

# Engineered to Be Quieter

Print at a whisper-quiet **45 dB** that blends right in to your home — ideal for shared spaces, day or night



@3dxav

*Image: Engineered to Be Quieter. This image highlights the printer's low noise level during operation.*

## 5.5 Integrated Ecosystem

The ELEGOO ecosystem includes powerful tools like Nexprint for 3D model management, ElegooSlicer for workflow simplification, and ELEGOO Matrix for remote printer control via smartphone or tablet, streamlining your entire 3D printing process.

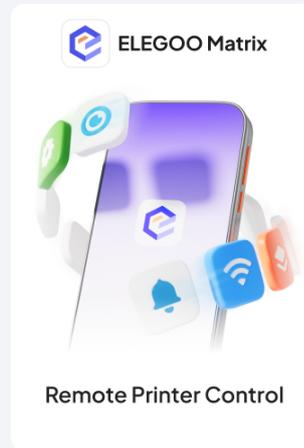


Image: Integrated Ecosystem. This image showcases the various software and connectivity options available within the ELEGOO ecosystem.

## 6. MAINTENANCE

- **Nozzle Cleaning:** Regularly inspect and clean the nozzle to prevent clogs and ensure consistent print quality. Use the provided unclogging pin if necessary.
- **Heated Bed Maintenance:** Keep the textured PEI plate clean. For optimal adhesion, ensure the bed is free of debris.
- **Filament Storage:** Store filaments in a dry environment to prevent moisture absorption, which can lead to brittle filament and printing issues.
- **Firmware Updates:** Periodically check for and install firmware updates to ensure your printer has the latest features and bug fixes.

## 7. TROUBLESHOOTING

### 7.1 Filament Feed Errors

If you encounter filament feed errors, such as error code 1220 or issues with filament loading/unloading, try the following steps:

1. Turn the printer off and on again.
2. Unload and then reload all four filaments through the CANVAS system interface.
3. Inspect the filament for any cracks or brittleness, especially with older spools. Replace if necessary.
4. Clean the nozzle to ensure there are no obstructions.

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Video: Resolving issues on the CC2 3D printer. This video provides solutions for common filament-related errors and connectivity problems.

## 7.2 Connectivity Issues

If the printer experiences cloud connectivity issues, acknowledging the error on the touchscreen may resolve it. Ensure your internet connection is stable.

## 7.3 Print Adhesion and Quality

If prints are not adhering to the bed or show signs of stringing, ensure the heated bed is clean and properly leveled. The automatic leveling feature should minimize these issues, but manual inspection of the print surface is always recommended.

# 8. SPECIFICATIONS

Feature	Detail
Product Dimensions	18.9 x 19.7 x 29.3 inches (48 x 50 x 74.4 cm)
Item Weight	42.6 pounds (19.35 Kilograms)
Brand	ELEGOO
Material	Metal
Multicolor Capability	4-Color Printing with CANVAS, RFID Filament Detection, Auto Refill, Auto Tangle Detection
Heated Bed	Auto Leveling, Partial Bed-Leveling
Nozzle	350°C Hardened Steel Nozzle
Camera	AI Intelligent Detection, Live Monitoring & Timelapse
Sensors	Smart Exhaust Grille, Auto Filament Unloading, Filament Runout Sensor, Clog Detection, Fan Self-Check, Part Cooling Fan Drop Detection, Power Loss Recovery
Air Filter	HEPA + Coconut Shell Activated Carbon
Touchscreen	5" Capacitive Touchscreen
Max Print Speed	500mm/s
Acceleration	20,000mm/s <sup>2</sup>
Build Volume	256x256x256mm

Feature	Detail
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet

## 9. WARRANTY & SUPPORT

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ELEGOO provides dedicated service in the consumer 3D printing industry. For any inquiries or technical support, please visit the official ELEGOO website or contact their customer service. This product typically comes with a 30-day easy return policy and protection plans may be available for extended coverage.

For more information, visit the [ELEGOO Store on Amazon](#).