

Creality K2 Pro Combo

Creality K2 Pro Combo 3D Printer User Manual

Model: K2 Pro Combo

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Creality K2 Pro Combo 3D Printer. Please read it thoroughly before initial use and retain it for future reference. The Creality K2 Pro Combo is an advanced FDM 3D printer designed for high-speed, multi-color printing with intelligent features.



Image 1.1: The Creality K2 Pro Combo 3D Printer, featuring its integrated multi-color filament system (CFS) and a printed model.

2. SETUP

2.1 What's in the Box

- Creality K2 Pro Combo 3D Printer Unit
- Creality Filament System (CFS)
- Power Cable
- Tool Kit
- Sample Filament
- User Manual (this document)

2.2 Assembly and Structural Overview

The K2 Pro Combo features a robust design for stability and precision. The printer's frame is constructed from aerospace-grade aluminum alloy, ensuring minimal vibration during high-speed operations. The X-axis utilizes a precise steel rail, and the Z-axis is supported by four linear rods for consistent print bed movement.

All Boosted by FOC Step-servo Motors

3 step-servo motors-located in the extruder and on the X/Yaxis -work together to take extrusion consistency and printing accuracy to the next level.

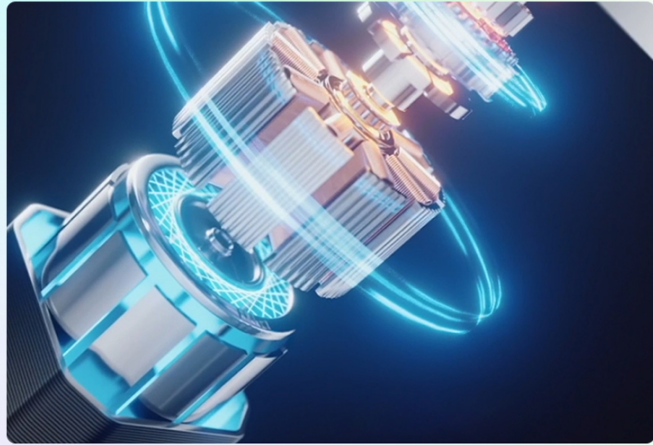


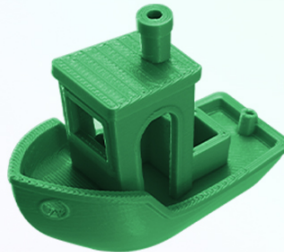
Image 2.1: Structural diagram of the printer's rigid exoskeleton.

Blazing Speed, A New Record

Turbocharged by a step-servo motor system, the printing speed soar up to 600 mm/s with acceleration reaching 20,000 mm/s?*

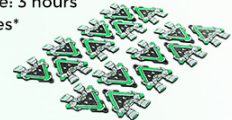
3DBenchy

Size: 60 × 31 × 48 mm
Filament: Hyper-PLA
Print Time: 10 minutes*



Maker Key Chains

Size: 50 × 64 × 2 mm (Per Unit)
Filament: Hyper-PLA
Print Time: 3 hours 10 minutes*



Hueforge Print

Size: 226 × 340 × 2 mm
Filament: Hyper-PLA
Print Time: 12 hours 12 minutes*



Image 2.2: Illustration of the precise steel X-axis rail.

Incredibly Quiet, While Printing Fast

Annoyed by the noise? Not K2 Pro. Thanks to the step-servo motors and dynamically balanced fans, it runs as quietly as typing on a laptop.

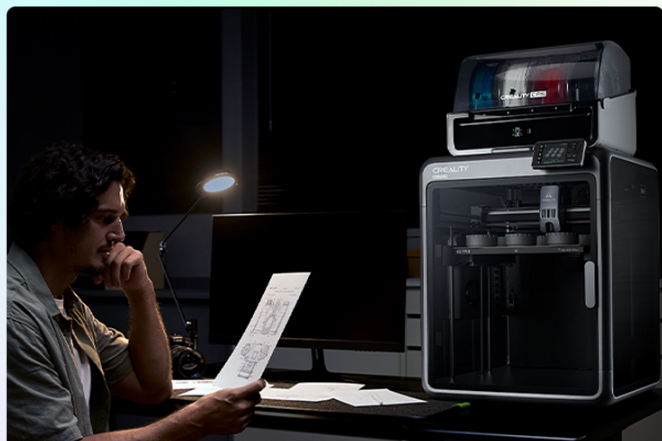


Image 2.3: Diagram of the dual Z-axis system with four linear rods.

2.3 Initial Calibration: Smart Auto Leveling

The printer features smart auto-leveling to simplify the setup process. This system probes only the areas where your model will be printed, significantly speeding up bed leveling and ensuring a perfect first layer.

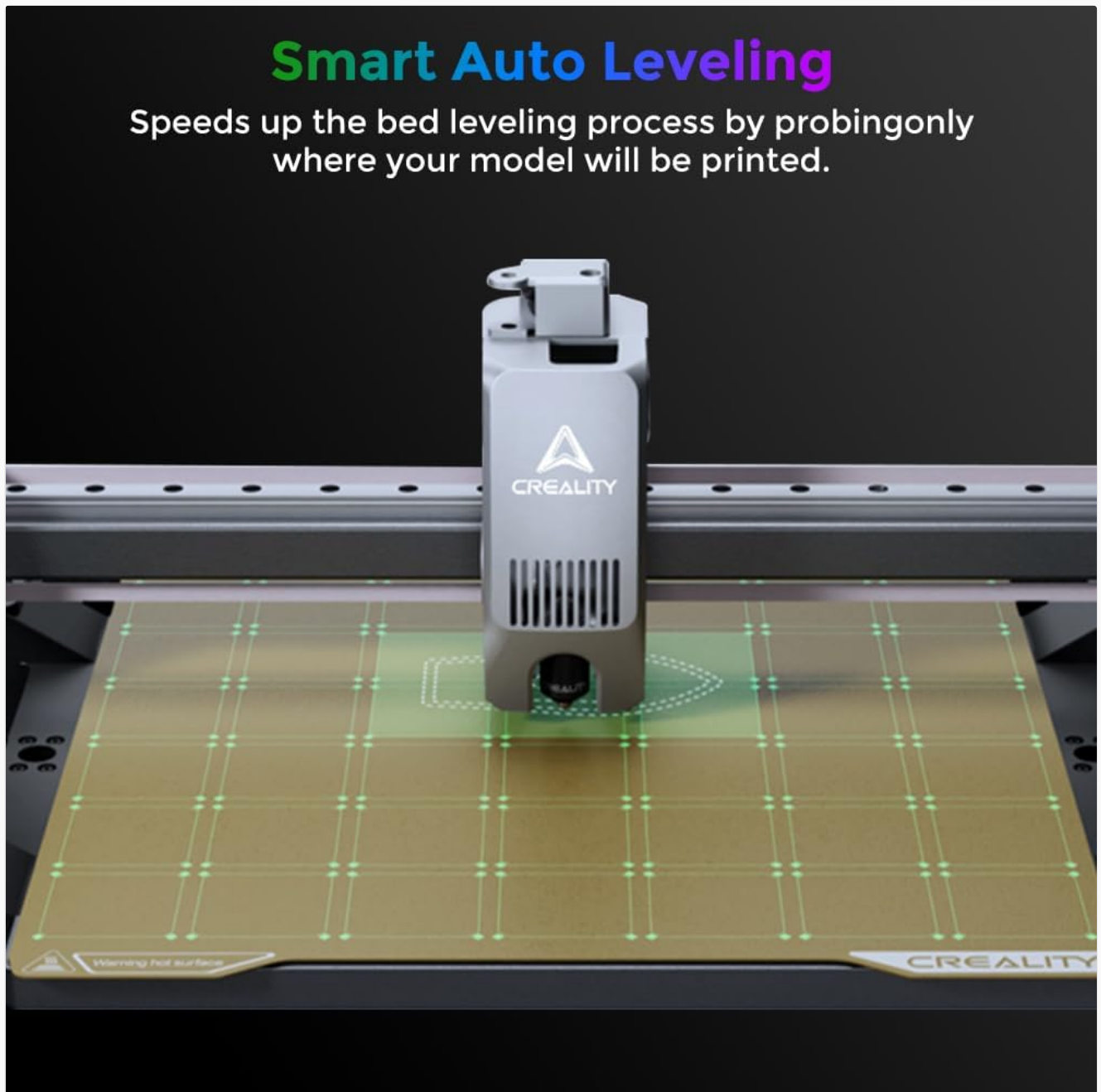


Image 2.4: Smart auto-leveling in progress.

3. OPERATING INSTRUCTIONS

3.1 Filament Loading and Multi-Color Printing

The K2 Pro Combo includes a Creality Filament System (CFS) for multi-color printing, supporting up to 16 colors. The system features a sensorized filament path with a built-in run-out sensor and an automated magnetic cutter for accurate filament management.

Sensorized Filament Path

Accurate filament In/Out with the built-in run-out sensor and automated magnetic cutter.

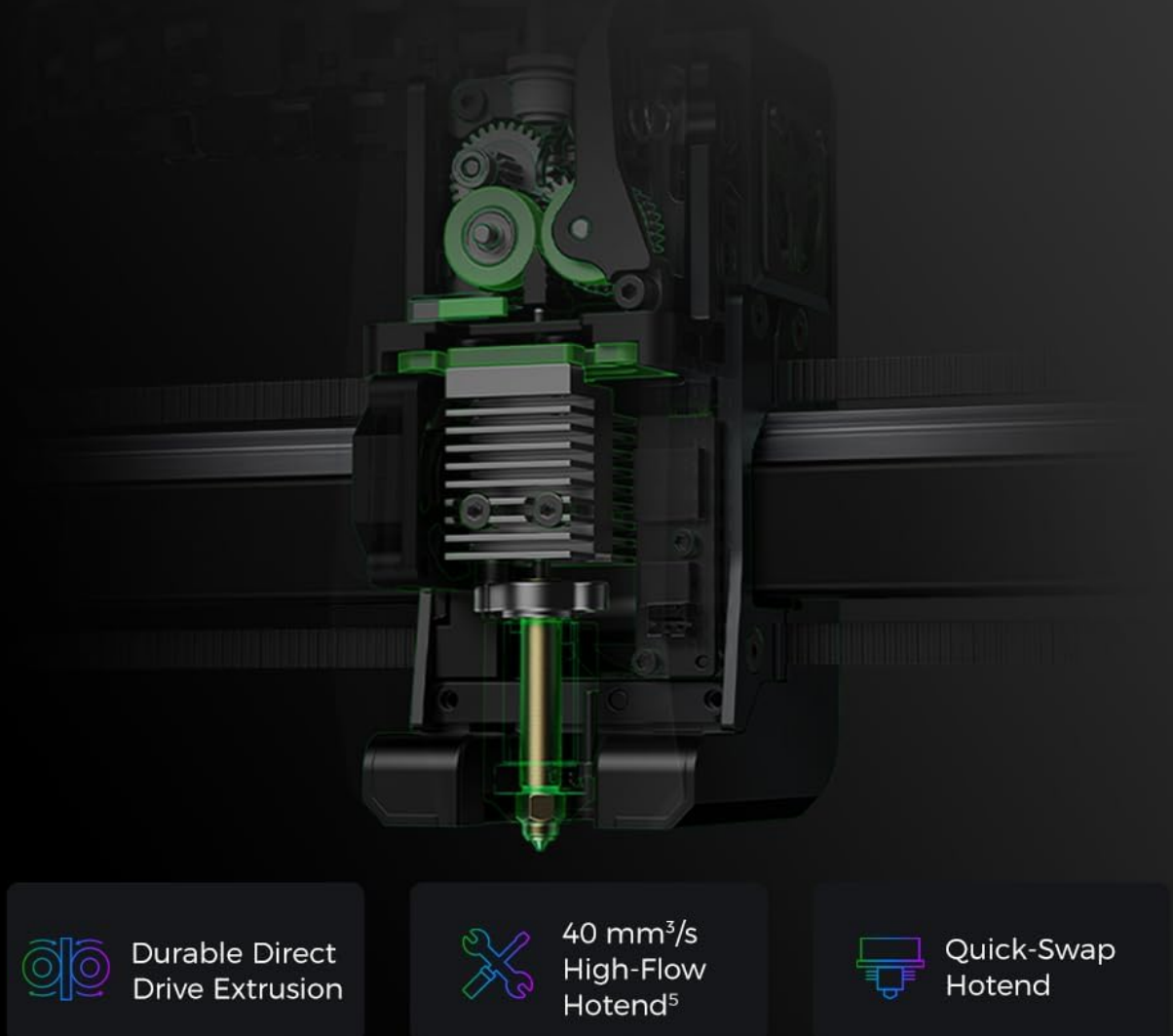


Image 3.1: Sensorized filament path and direct drive extrusion system.

Precise Steel X-Axis Rail

Stiff steel processed with great precision. Highly resistant to wear.

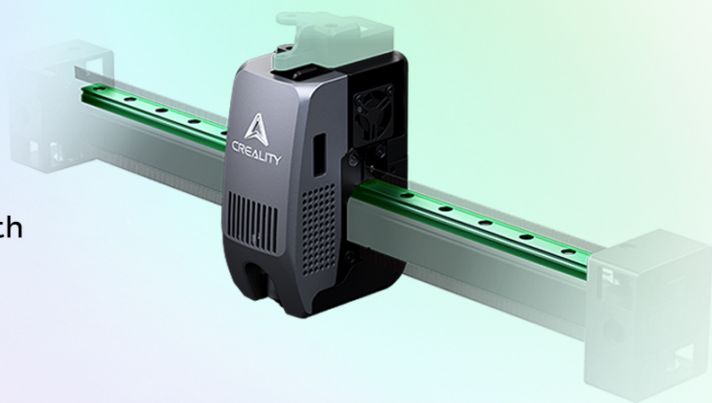


Image 3.2: Multi-color printing setup with multiple CFS units.

3.2 High-Speed Printing

The printer achieves speeds up to 600 mm/s with acceleration reaching 20,000 mm/s², enabled by industry-grade step-servo motors located in the extruder and on the X/Y axes. This system ensures consistent extrusion and high printing accuracy.

Blazing Speed, a New Record

Turbocharged by a step-servo motor system,
the printing speed soar up to **600** mm/s
with acceleration reaching **20,000** mm/s²*

3DBenchy

Size: 60 × 31 × 48 mm

Filament: Hyper-PLA

Print Time: 10 minutes*



Image 3.3: Example of a 3DBenchy printed at high speed.

Next-Gen Direct Drive Extruder

Integrated. Reliable. High-Flow.

Image 3.4: FOC Step-servo motors for enhanced motion control.

3.3 Printing with Advanced Materials (Heated Chamber)

The active heated chamber maintains a stable temperature up to 60°C, which is crucial for printing with engineering filaments like ASA and PPA, preventing warping. The steel-tipped nozzle can reach up to 300°C, allowing compatibility with high-temperature and abrasive materials such as PA-CF.



Active Chamber Heating

Active chamber heating on the K2 Pro and K2 Plus maintains a stable chamber temperature (up to 60 °C), helping prevent corner warping when printing with filaments like ASA and PPA.

* Data from Creality Lab. Printing with ABS, ASA, and PPS requires a chamber temperature of 60 °C. PAHT-CF requires 50 °C.

Image 3.5: Active chamber heating system.

3.4 AI Camera Monitoring

The printer integrates dual AI cameras for enhanced print monitoring and optimization:

- **Chamber AI Camera:** Monitors for printing failures like spaghetti detection, foreign objects, or idling. It also checks if the heatbed is empty and can capture time-lapse videos.
- **Nozzle AI Camera:** Adjusts nozzle flow rate in real-time to prevent under- or over-extrusion, performs pressure advance tuning, and detects waste chute blockages.

Chamber AI Camera

- Close WatCh Around the Clock
- Build Plate Check
- Time-Lapse Filming

Print Failure Detection

Detect printing failures, such as spaghetti, and notify users to take action



Image 3.6: Chamber AI camera detecting print failure.

Nozzle AI Camera

- Pressure Advance Tuning

- Flow Rate Optimization

- Waste Chute Blockage Detection

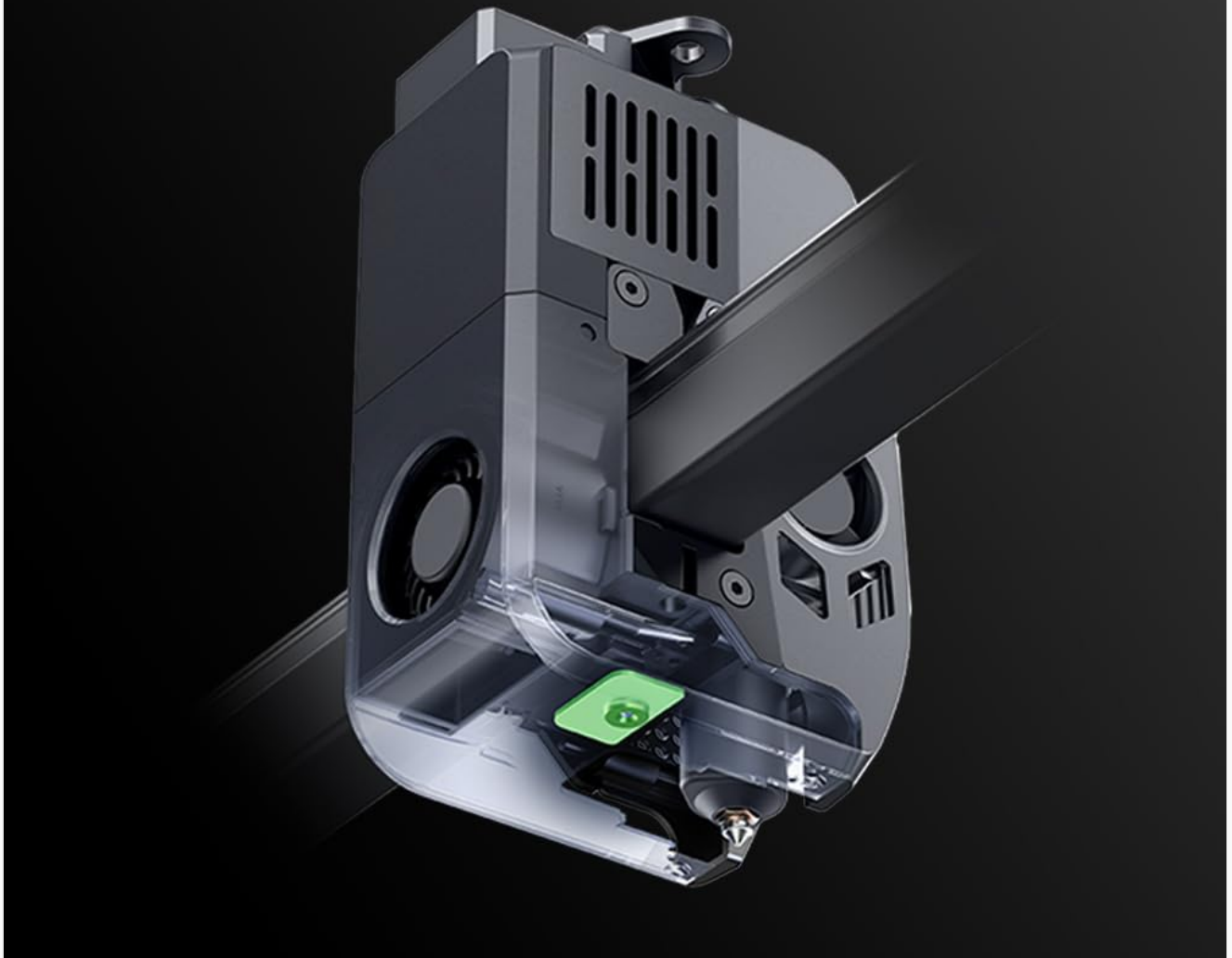


Image 3.7: Nozzle AI camera features.

3.5 Auxiliary Cooling

An auxiliary cooling fan on the side of the chamber directs airflow onto the extruded filament, improving interlayer adhesion and overall print quality.

Auxiliary Fan Set Style Right Off

The auxiliary cooling fan on the side of the chamber direct airflow onto the extruded filament, enhancing interlayer adhesion.



Image 3.8: Auxiliary cooling fan in operation.

4. MAINTENANCE

4.1 Extruder and Hotend Care

The K2 Pro Combo features a durable direct drive extrusion system with hardened steel gears, designed to handle various filament types, including carbon fiber-filled materials. The 40mm³/s high-flow hotend is powered by an 80W heater.

Image 4.1: Durable direct drive extrusion system.

The hotend is modularly designed for quick-swapping, simplifying maintenance and replacement. The nozzle cover is magnetic for easy removal and access.

Advanced Intelligence Has Your Back

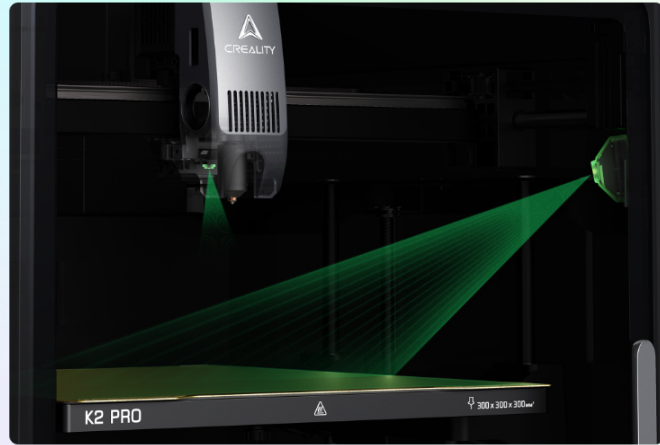


Image 4.2: Quick-swap hotend design.

4.2 General Cleaning

- Regularly clean the print bed with isopropyl alcohol to ensure optimal adhesion.
- Keep the interior of the printer free from dust and filament debris.
- Inspect the X-axis rail and Z-axis rods for any obstructions or wear.

5. TROUBLESHOOTING

The integrated AI cameras assist in identifying and preventing common printing issues. Refer to the printer's touchscreen interface for specific error messages and guidance.

5.1 Common Printing Issues

- **Poor First Layer Adhesion:** Ensure the print bed is clean and properly leveled. Adjust Z-offset if necessary.
- **Under/Over-Extrusion:** The Nozzle AI camera automatically optimizes flow rate. If issues persist, check filament diameter settings in your slicer and ensure the hotend is not clogged.
- **Warping:** For materials prone to warping (e.g., ABS, ASA), ensure the active heated chamber is set to the appropriate temperature (up to 60°C).
- **Filament Run-Out:** The sensorized filament path will detect run-out and pause the print. Replace the filament and resume.
- **Spaghetti Detection:** The Chamber AI camera can detect severe print failures. If detected, the printer may pause or alert you to intervene.

5.2 Firmware Updates

Regularly check for firmware updates from the official Creality website to ensure optimal performance and access to new features. Follow the provided instructions carefully during the update process.

6. SPECIFICATIONS



Image 6.1: Technical specifications overview.


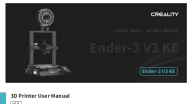

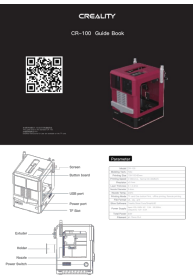


Parameter	Value
Build Volume	300 x 300 x 300 mm (11.81 x 11.81 x 11.81 inches)
Product Dimensions	445 x 477 x 573 mm (23 x 23 x 24 inches)
Net Weight	23.7 kg (52.2 pounds)
Max Print Speed	600 mm/s
Max Acceleration	20,000 mm/s ²
Max Nozzle Temperature	300°C
Max Heatbed Temperature	110°C
Max Chamber Temperature	60°C
Extruder Type	Direct Drive with Hardened Steel Gears
Hotend Flow Rate	40 mm ³ /s
Motors	FOC Step-servo Motors (X/Y Axes and Extruder)
Leveling Mode	Smart Auto Leveling
AI Cameras	Dual (Chamber AI Camera, Nozzle AI Camera)
Display	4-inch Touchscreen
Connectivity	Wi-Fi (2.4G & 5G), RJ45, USB Drive, Creality 485 Port
Storage	32GB EMMC
Material	Aluminum

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Creality website or contact Comgrow customer service. Keep your purchase receipt for warranty validation.

Comgrow Store Link: [Visit the Comgrow Store on Amazon](#)

Related Documents - K2 Pro Combo

	<p>Creality K1 SE 3D Printer User Manual - Setup, Printing, and Maintenance Guide</p> <p>Comprehensive user manual for the Creality K1 SE FDM 3D printer. Learn how to unbox, set up, perform your first print, and maintain your device for optimal performance. Includes detailed instructions and troubleshooting tips.</p>
	<p>Creality Ender-3 V3 KE 3D Printer User Manual</p> <p>This user manual provides comprehensive instructions for the Creality Ender-3 V3 KE 3D Printer, covering assembly, setup, operation, maintenance, and troubleshooting. Learn about the printer's features, including high-speed printing, auto-leveling, and direct extrusion.</p>
	<p>Creality K1 Max 3D Printer User Manual</p> <p>Comprehensive user manual for the Creality K1 Max 3D printer, covering setup, operation, maintenance, and troubleshooting. Learn about its features like AI LiDAR, direct drive extrusion, and cloud connectivity.</p>
	<p>Creality CR-100 3D Printer Guide Book</p> <p>A comprehensive guide book for the Creality CR-100 3D printer, covering its features, operation, and maintenance. Learn how to load filament, install the platform, and perform one-button printing.</p>
	<p>Creality K1C 3D Printer User Manual</p> <p>Comprehensive user manual for the Creality K1C 3D printer, covering setup, operation, maintenance, and troubleshooting. Learn how to use the printer's features for optimal printing results.</p>
	<p>Creality K1 3D Printer User Manual: Setup, Operation, and Maintenance</p> <p>A comprehensive guide for the Creality K1 3D printer, detailing unpacking, installation, user interface navigation, printing methods (USB and LAN), functional specifications, routine maintenance, and safety precautions.</p>



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K2 Pro MANUEL D UTILISATION Imprimante 3D K2 Pro V 1.0_FR Chers utilisateurs
Merci d avoir choisi les produits Creality. Ce guide rapide prsente les tapes de
dballage, d installation et de dpannage. Veuillez le lire attentivement avant utilisation.
Pour des instructions plus dtailles, des vidos de...

lang:fr **score:31** filesize: 7.54 M page_count: 28 document date: 0000-00-00