Creality K2 Plus Combo

Creality K2 Plus Combo 3D Printer User Manual

Model: K2 Plus Combo

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your Creality K2 Plus Combo 3D Printer. It covers setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device. The Creality K2 Plus Combo is an advanced 3D printer featuring multicolor printing capabilities, high-speed operation, and intelligent monitoring systems.



Image 1.1: Creality K2 Plus Combo 3D Printer with CFS unit.

2. Product Features

The Creality K2 Plus Combo integrates several advanced features designed to enhance the 3D printing experience:

- **Multicolor Printing with CFS:** The K2 Plus Combo includes the K2 Plus 3D printer and one CFS (Color Filament System) unit. The CFS features four slots for different filament colors, enabling up to 16-color blending in a single print through dynamic mixing.
- **Ultra-Fast Speed & High Precision:** Achieve print speeds of up to 600mm/s with 30,000mm/s² acceleration. The printer maintains a precision of 0.05mm while operating at a low noise level of 45dB.
- **Spacious Build Volume:** A 350×350×350mm print area allows for the creation of large models or multiple parts simultaneously. The aerospace-grade aluminum alloy frame ensures stability.
- **Smart Filament Management:** The CFS unit provides automatic filament switching, sealed storage, and drying capabilities to maintain optimal filament condition.
- **Next-Gen AI Automation & Monitoring:** Equipped with dual AI cameras and 18 sensors, the system monitors the nozzle and print chamber to detect issues such as spaghetti faults, flow inconsistencies, and other errors, reducing print failures.



Image 2.1: Multicolor printing capability with CFS.



Image 2.2: Quiet operation of the K2 Plus at 45dB.

3. Setup

The Creality K2 Plus Combo is designed for quick and straightforward setup. The unit comes largely pre-assembled.

3.1 Unpacking and Placement

1. Carefully remove the printer and CFS unit from the packaging. Due to its weight, it is recommended to have two people for safe handling.
2. Place the printer on a stable, level surface in a well-ventilated area.
3. Ensure adequate space around the printer for operation and maintenance.

3.2 Initial Assembly

1. Install the display screen according to the included quick start guide.
2. Connect the CFS unit to the main printer unit using the provided cables.
3. Connect the power cable to the printer and plug it into a suitable power outlet. The K2 Plus supports a wide input voltage range of 100V-242V.

3.3 First Power On and Network Connection

1. Power on the printer. Follow the on-screen prompts for initial setup, including language selection and network configuration (Wi-Fi or Ethernet).
2. Ensure the printer is connected to your network for firmware updates and remote monitoring capabilities.



Image 3.1: Automatic leveling system and dual Z-axis for precise first layers.

4. Operating Instructions

4.1 Filament Loading and Management

1. Open the CFS unit and place up to four filament spools into the designated slots.
2. Feed the filament ends into the CFS input ports. The system will automatically manage filament switching.
3. For optimal results, use Creality RFID filaments, which automatically provide data such as type and color to the printer.
4. The CFS also provides sealed storage and drying to keep filaments in optimal condition.

4.2 Slicing and File Transfer

1. Prepare your 3D model using Creality Print 5.0 or newer slicing software. Configure print settings, including color assignments for multicolor prints.
2. Export the sliced G-code file.
3. Transfer the file to the printer via USB drive, Ethernet, or Wi-Fi. The printer has 32GB EMMC for file storage.

4.3 Starting a Print

1. Select the desired G-code file from the printer's display screen.
2. Initiate the print. The printer will perform full-auto leveling and pre-heating before starting.
3. Monitor the print progress via the display screen or remotely using the Creality app, leveraging the dual AI cameras.



Image 4.1: Dual AI cameras and smart connectivity for monitoring.

5. Maintenance

Regular maintenance ensures consistent print quality and extends the lifespan of your Creality K2 Plus Combo.

5.1 Cleaning

- **Build Plate:** After each print, allow the build plate to cool and remove the printed object. Clean the textured side with isopropyl alcohol (IPA) to maintain adhesion.
- **Nozzle:** Periodically inspect the nozzle for clogs or wear. Use the provided cleaning tools to clear any

blockages.

- **Printer Interior:** Use a soft brush or compressed air to remove dust and filament debris from the print chamber and moving parts.

5.2 Filament System Maintenance

- Ensure the CFS unit's desiccant is active to prevent moisture absorption by filaments. Replace desiccant as needed.
- Check filament paths for any obstructions or wear.

5.3 Firmware Updates

Regularly check for and install firmware updates to ensure your printer has the latest features and performance improvements. Updates can typically be managed through the printer's interface or the Creality app.

6. Troubleshooting

This section addresses common issues you might encounter during operation.

6.1 Common Printing Issues

- **Poor First Layer Adhesion:** Ensure the build plate is clean and free of oils. Verify that the automatic leveling process completed successfully. Adjust Z-offset if necessary.
- **Filament Not Extruding:** Check for clogged nozzle. Ensure filament is loaded correctly and not tangled. Verify hotend temperature settings are appropriate for the filament type.
- **Print Quality Issues (e.g., Layer Shifts, Stringing):** Ensure the printer is on a stable surface. Check belt tension. Verify slicing software settings for retraction and print speed.

6.2 AI Camera Alerts

The dual AI cameras are designed to detect common print failures. If an alert is triggered, review the camera feed and the specific error message on the display or app. Common alerts include:

- **Spaghetti Detection:** Indicates a print failure where filament is not adhering and creating a tangled mess. Pause the print, clear the debris, and restart if possible, or cancel and re-evaluate settings.
- **Flow Inconsistency:** Suggests issues with filament extrusion. Check filament path, nozzle, and extruder.

6.3 Power and Connectivity Issues

- **Printer Not Powering On:** Verify power cable connection and wall outlet functionality. Check the printer's power supply for any indicators of issues.
- **Network Connection Failure:** Ensure Wi-Fi credentials are correct or Ethernet cable is securely connected. Restart the printer and your router if necessary.

7. Specifications

7.1 Creality K2 Plus Printer Specifications

Feature	Specification	Feature	Specification
Printing Technology	Fused Deposition Modeling	Product	K2 Plus

Feature	Specification	Feature	Specification
Build Volume	350×350×350mm	Build Plate	Flexible build plate
K2 Plus Dimensions	495×515×640mm	Leveling Mode	Full-auto Leveling
K2 Plus Combo Dimensions	495×515×916mm	XYZE Motor	Step-servo motor
K2 Plus Net Weight	35KG	File Transfer	USB Drive/Ethernet/WiFi
Printing Speed	≤600mm/s	File Storage	32GB EMMC
Acceleration	≤30000mm/s²	WiFi	2.4GHz/5GHz
Printing Accuracy	100mm±0.1mm	RFID Sensor in Printer	Included
Layer Height	0.05-0.3mm	Rated Voltage	100-240V~ AC 50/60Hz
Extruder	Dual-gear direct drive extruder	Display Screen	4.3' color touch screen
Filament Diameter	1.75mm	Rated Power	1200W
Nozzle Diameter	0.4mm	Supported Filaments	PLA/ABS/PETG/PA/CF-PLA/CF/PET/ASA/PPA-CF
Nozzle Temperature	≤350℃	AI Camera for Monitoring	Standard
Heatbed Temperature	≤120℃	AI Camera for Calibration	Standard
Chamber Temperature	≤60℃	Power Loss Recovery	Yes
Auto Filament Relay	Yes	Filament Tangle Detection	Yes
Air Purifier	Yes	Input Shaping	Yes
Lighting kit	Yes	Active Bed Tilt Calibration	Yes

Feature	Specification	Feature	Specification
Active Belt Tensioning	Yes	Active Chamber Heater	Yes
CFS Compatibility	Yes	Number of CFS Extensions	≤4
Slicing Software	Creality Print 5.0 or newer versions	UI Languages	English/German/Spanish/French/Italian/Portuguese/Russian/Turkis

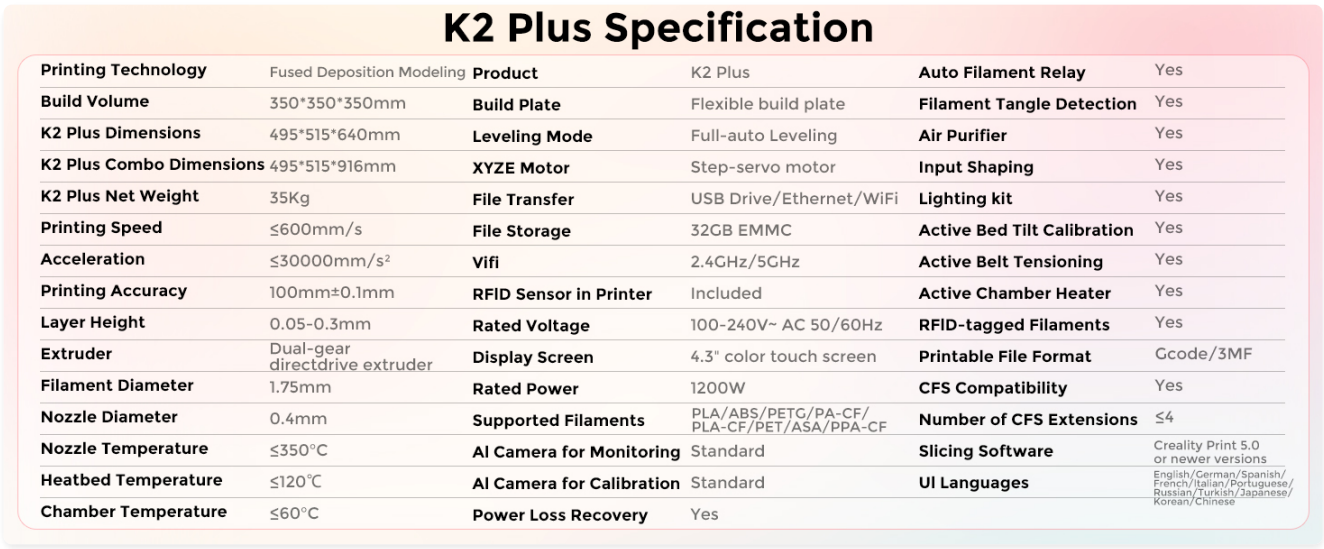


Image 7.1: Creality K2 Plus detailed specifications.

7.2 CFS Specifications

Feature	Specification	Feature	Specification
Product	CFS	Supported 3D Printer	K2 Plus
Dimensions	379 x 314 x 276 mm	Connection Port	Creality 485 x2
Net weight	4.56 kg	Power supply	DC 24V (No need of extra power supply while connected to K2 Plus)
Number of Filament Slots	4	Rated Power	20W
Drying Method	Desiccant	Status Indicator	Indicator light (white/red) x 4
Filament Buffer	IN x48 OUT x1	Display Screen	Segment LCD showing temperature and humidity
Number of Extensions	≤4	Filament spool compatibility	1kg filament spool; diameter: 197-202 mm; thickness: 42-68 mm
RFID Filament Recognition	Yes	Supported Filaments	PLA/PETG/ABS/ASA/PET/PLA-CF; *Not compatible with flexible TPU, damp BVOH/PVA, or warped cardboard spools.
Filament Diameter	1.75±0.05 mm	Auto Filament Relay	Yes

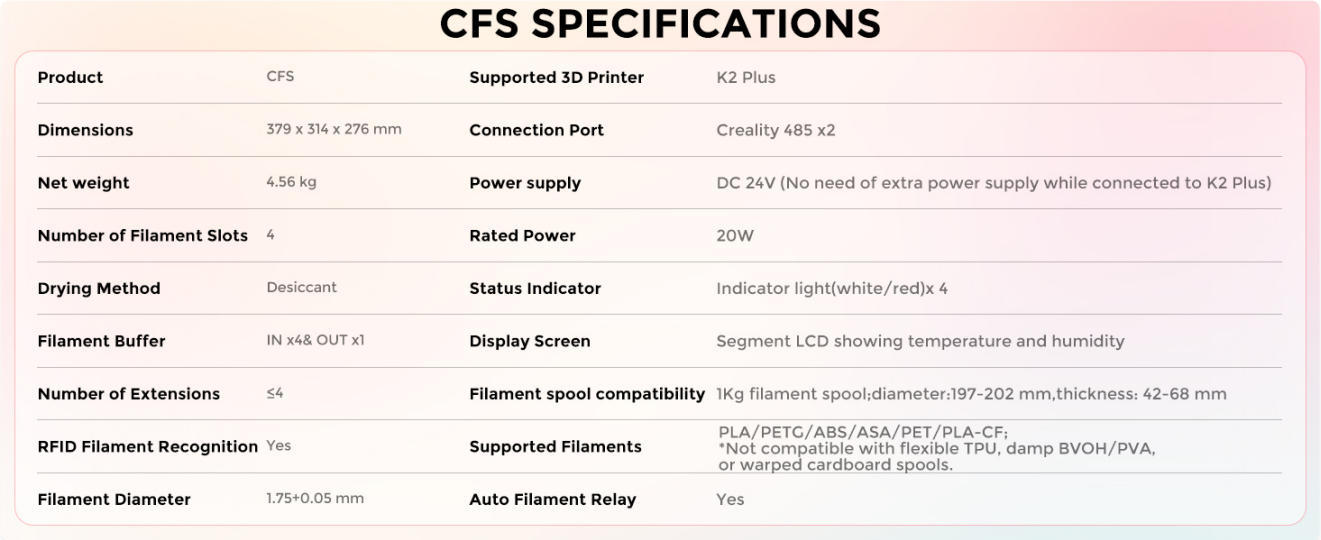


Image 7.2: Creality CFS detailed specifications.

8. Warranty and Support

For warranty information, technical support, and service inquiries, please refer to the official Creality website or contact Creality customer service directly. Keep your purchase receipt as proof of purchase for warranty claims. Online resources, including FAQs and community forums, are also available for additional assistance.

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Question

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Details

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Submit question