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ANYCUBIC Kobra X

Anycubic Kobra X Multicolor 3D Printer User Manual

Model: Kobra X | Brand: ANYCUBIC

Comprehensive user manual for the Anycubic Kobra X Multicolor 3D Printer, covering setup, operation, maintenance, troubleshooting, and specifications.

1. Introduction

The Anycubic Kobra X is an advanced FDM 3D printer designed for multicolor printing, offering ease of use and high-speed performance. This manual provides essential information for setting up, operating, and maintaining your Kobra X 3D printer to ensure optimal performance and longevity.

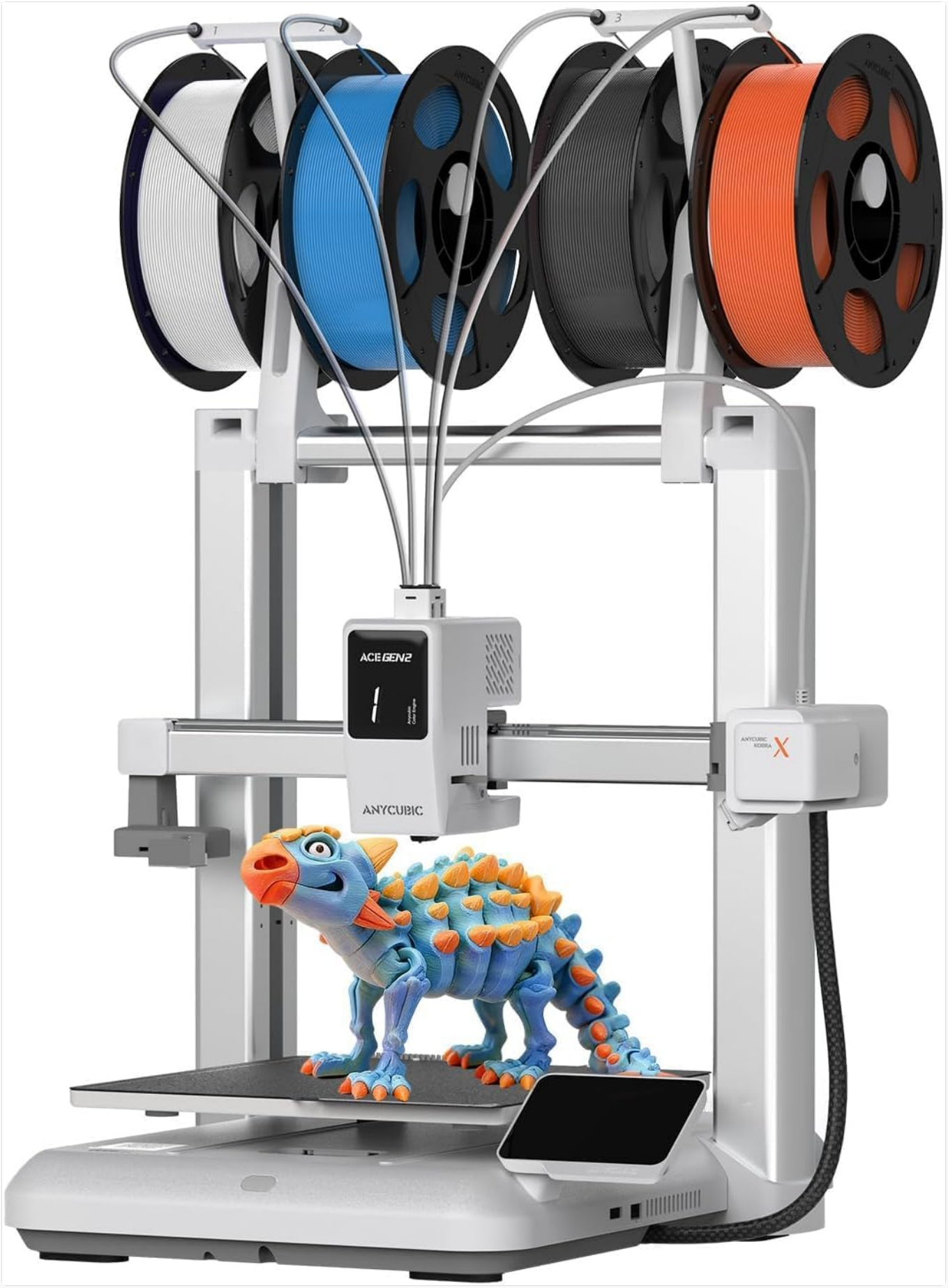

Image: The Anycubic Kobra X 3D Printer, showcasing its design and multicolor capabilities.

2. Safety Information

Please read and understand all safety instructions before operating the Anycubic Kobra X 3D Printer.

- Always operate the printer in a well-ventilated area to dissipate fumes from heated plastics.
- Keep the printer away from flammable materials, liquids, and direct heat sources.
- Do not touch the hot nozzle or heated print bed during operation or immediately after printing, as they can cause severe burns.
- Ensure the printer is properly grounded and use only the power cable provided by the manufacturer.
- Keep the printer out of reach of children and pets to prevent accidental injury or damage.
- Unplug the printer from the power outlet before performing any maintenance, cleaning, or when it is not in use.
- Do not attempt to modify the printer or use non-original parts, as this may void your warranty and pose safety risks.

3. Package Contents

Verify that all components are present in your package before proceeding with assembly:

- 3D Printer (Main Unit)
- Gantry frame
- Printer Base
- Power cord
- Spool Holder Shaft (4pcs)
- Spool Holder (2pcs)
- Purge Wiper & M3*8 (1pcs)
- M5*30 (8pcs)
- Cable Clip
- Teflon tube (4pcs)
- Filament Samples
- Grease
- Nozzle cleaner
- 4.0/2.5/2.08 Magnet
- Decorative cover (2pcs)
- Cable cover
- Printing board
- Application Brush
- User Manual (this document)

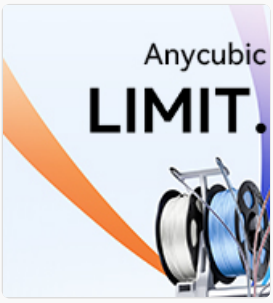

Image: Diagram illustrating the components included in the Anycubic Kobra X package.

4. Setup

Follow these steps for the initial assembly and setup of your Anycubic Kobra X 3D Printer.

4.1 Assembly

1. Carefully unpack all components from the box and place them on a stable surface.
2. Attach the gantry frame to the printer base using the provided screws and tools. Ensure all connections are secure.
3. Install the spool holders and shafts onto the designated positions.
4. Connect all necessary cables, including power, motor, and sensor cables, as indicated in the quick start guide.



Image: Detailed diagram of the ACE GEN 2 multicolor printing technology, showing internal filament paths and extruder mechanism.

4.2 Initial Calibration and Filament Loading

After assembly, perform the initial calibration and load your first filament to prepare for printing.

1. Power on the printer using the main switch.
2. Follow the on-screen prompts on the printer's display for initial setup and automatic bed leveling using the LeviQ 3.0 system. This process uses a 49-point calibration for precise bed flatness.
3. Load the filament into the designated input ports. The Kobra X supports native 4-color printing and can be

expanded up to 19 colors with additional ACE 2 Pro units (sold separately).



Image: Illustration of the 49-point auto-leveling process, demonstrating how the printer ensures a perfect first layer.

5. Operating Instructions

5.1 Multicolor Printing

The Kobra X features native 4-color printing and can be expanded for up to 19 colors with compatible accessories. Ensure your 3D model is sliced with appropriate color assignments for multi-material printing using the Anycubic Slicer.



Image: An example of a multi-color 3D print, demonstrating the printer's capability to produce intricate designs with multiple filament colors.

5.2 Multi-Material Compatibility

The Kobra X supports a variety of filament types, including rigid and flexible materials, with a nozzle temperature up to 300°C. This allows for versatile printing applications.



Image: A 3D printed object demonstrating the use of both PLA and flexible TPU materials in a single print.

5.3 High-Speed Printing

The Kobra X is engineered for speed, achieving a maximum print speed of 600mm/s. This significantly reduces print times, allowing for quicker project completion.



Image: Visual representation of print speed and material savings, highlighting a 14-minute Benchy print time.

5.4 AI Monitoring and Smart Features

The Kobra X includes intelligent monitoring features for enhanced printing reliability and efficiency:

- **Spaghetti Detection:** AI-powered live monitoring helps prevent print failures caused by tangled or improperly extruded filament (often referred to as 'spaghetti').
- **Foreign Object Detection:** Automatically identifies and alerts users to debris or obstructions in the printing area to prevent damage to the printer or print.
- **Auto-Resume/Recovery:** In the event of a power outage, the printer can automatically resume printing from where it left off once power is restored.
- **Object Skipping:** For multi-object prints, the printer can identify and skip faulty individual parts, allowing the remaining objects to complete successfully.



Image: A close-up of the printer's camera, illustrating its role in intelligent monitoring features.

5.5 Remote Control and Connectivity

Control and monitor your printer remotely via the Anycubic App and Slicer, utilizing dual-band Wi-Fi (2.4G/5G) and LAN connectivity for convenient operation from anywhere.



Image: Screenshot of the Anycubic mobile application interface, showing remote control and monitoring options for the printer.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your 3D printer. Perform these tasks periodically:

- **Nozzle Cleaning:** Use the provided nozzle cleaner or a thin needle to clear any filament residue or blockages from the nozzle. Perform this when the nozzle is heated.
- **Lubrication:** Apply a small amount of grease to the Z-axis lead screws and other moving linear rails as needed to ensure smooth and quiet operation.
- **Build Plate Care:** Clean the PEI spring steel build plate with isopropyl alcohol after each print to maintain optimal adhesion and prevent residue buildup.
- **Firmware Updates:** Regularly check the official Anycubic website for the latest firmware updates. Updating firmware can improve performance, add new features, and fix bugs.
- **General Cleaning:** Keep the printer free of dust and filament debris using a soft brush or compressed air.



Image: A close-up of an Anycubic 3D printer nozzle, a key component for print quality that requires regular cleaning.

7. Troubleshooting

For detailed troubleshooting steps and solutions to common issues, please refer to the official troubleshooting guide:

Download Official Troubleshooting Guide (PDF)

Common Issues and Quick Solutions:

- **Poor First Layer Adhesion:** Ensure the build plate is clean and free of oils. Re-run the auto-leveling process (LeviQ 3.0) and adjust the Z-offset if the nozzle is too far or too close to the bed.
- **Filament Clogging:** Heat the nozzle to the appropriate temperature for the filament. Use the provided nozzle cleaner or a thin needle to gently clear any blockages. Ensure filament is loaded correctly and not tangled.
- **Print Quality Issues (e.g., stringing, layer shifts):**Verify your slicing settings (temperature, retraction, print speed). Check for loose belts or screws on the printer frame. Ensure filament is dry and of good quality.
- **Printer Not Responding:** Power cycle the printer. Check all cable connections. If the issue persists, consult the troubleshooting guide or contact support.

8. Specifications

Detailed technical specifications for the Anycubic Kobra X 3D Printer are provided below:

Core Printing Performance



Image: Table detailing core printing performance specifications such as multicolor capability, printing volume, supported filaments, and speed.

System & Structural Design



Image: Table outlining system and structural design specifications including firmware, extrusion type, leveling, and detection features.

User Experience & Features



Image: Table presenting user experience and feature specifications such as noise level, video monitoring, language support, and machine dimensions.

General Specifications:

- **Product Dimensions:** 23 x 13 x 22 inches (58.4 x 33 x 55.9 cm)
- **Item Weight:** 20.9 pounds (9.5 kg)
- **Material:** Metal
- **Color:** Grey
- **Manufacturer:** ANYCUBIC

9. Frequently Asked Questions (FAQ)

Below are answers to some common questions about the Anycubic Kobra X 3D Printer:



Image: A section with common questions and answers regarding the Anycubic Kobra X.

1. **Q1: What materials can the Kobra X print with?**
   A: Single material printing: PLA, PETG, TPU(95A/64D/68D), PVA, ABS. Multi-material printing: PLA + TPU(68D), PLA + PVA, TPU(68D) + TPU(68D).
2. **Q2: What equipment is required for 19-color printing?**

A: It requires 2* 8-color filament hubs and 1*2-color filament hub to achieve 19-color printing.

3. **Q3: What is the material of the Kobra X's hotend nozzle?**
   A: Hardened steel. Pre-installed with a 0.4mm hardened steel nozzle. It also supports optional 0.25mm brass and 0.6mm / 0.8mm hardened steel nozzles.
4. **Q4: Is the Kobra X compatible with the ACE Pro from the first-generation Kobra 3/Kobra S1/Kobra 3 Max?**
   A: Kobra X does not support ACE Pro.
5. **Q5: What are the differences between the ACE 2 Pro and the first-generation ACE Pro?**
   A: The ACE 2 Pro adds 65°C active drying while printing, climate monitoring, and an electromagnetic valve for active moisture removal. It also features upgraded feeding and buffering systems for enhanced printing stability.

10. Warranty and Support

The Anycubic Kobra X is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Anycubic website. The product has also joined the Amazon Replacement Parts Program for convenient access to spare parts.
For technical assistance, customer service, or to inquire about replacement parts, please contact Anycubic customer support through their official channels or visit their Amazon store:

- ANYCUBIC Official Amazon Store

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