

UniFormation GKtwo

UniFormation GKtwo 8K Resin 3D Printer User Manual

Model: GKtwo

Brand: UniFormation

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your UniFormation GKtwo 8K Resin 3D Printer. Please read it thoroughly before initial use and keep it for future reference.

The UniFormation GKtwo is a high-resolution 8K resin 3D printer featuring a 10.3-inch monochrome LCD screen, a built-in heating system, and an odor removal filter, designed for detailed and large-volume resin printing.

PACKAGE CONTENTS

Upon unboxing, please verify that all components listed below are present and undamaged.

PACKAGE LIST

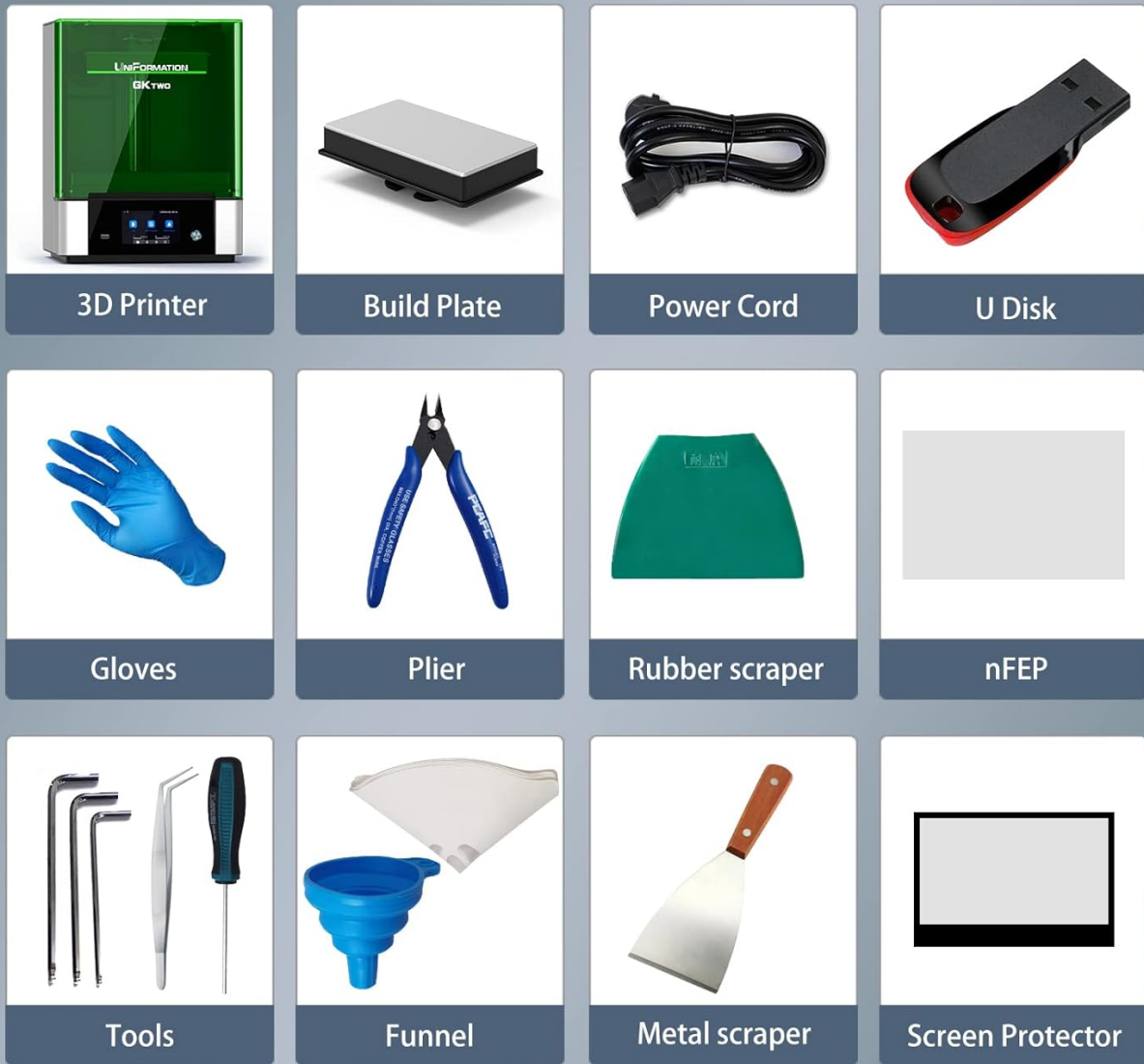


Figure 1: Package Contents. This image displays all items included in the UniFormation GKtwo 3D printer package, including the printer unit, build plate, resin vat, power cord, U disk, gloves, plier, rubber scraper, nFEP film, wrench tools kit, funnel, metal scraper, and screen protector.

- 3D Resin Printer (GKtwo 8K)
- Build Plate
- Resin Vat
- Screen Protector
- Power Cord
- U Disk
- Metal Scraper
- Gloves
- nFEP Film
- Plier
- Wrench Tools Kit
- Funnel
- Rubber Scraper

SETUP

1. Unboxing and Initial Inspection

Carefully remove the printer from its packaging. Inspect the unit for any visible damage that may have occurred during transit. Remove all protective films and packaging materials.

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Video 1: Unboxing Video of Uniformation GKTWO 3D Resin Printer. This video demonstrates the unboxing process, showing how to safely remove the printer and its components from the packaging.

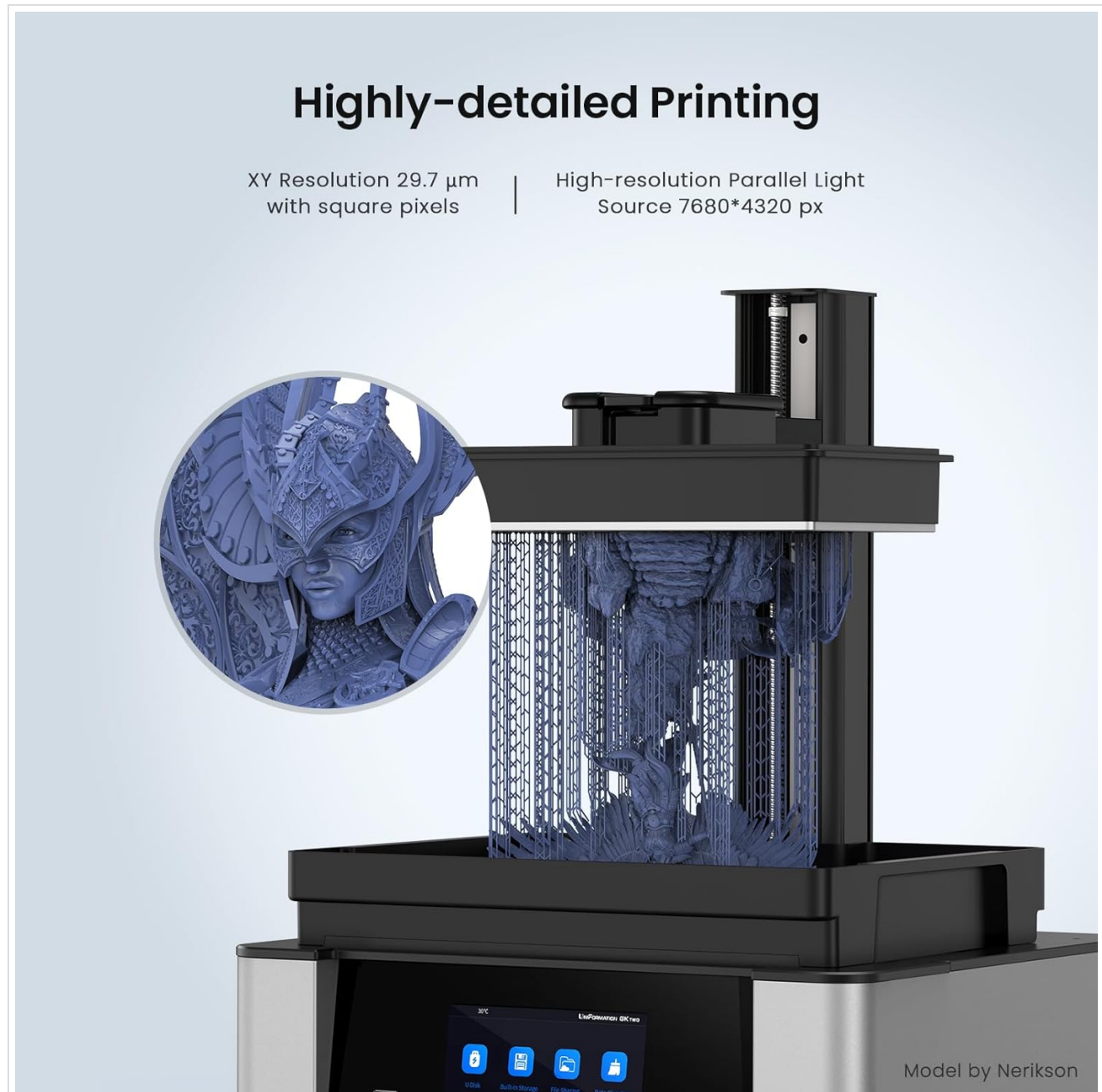


Figure 2: Removing Protective Film. Ensure all protective films, especially from the LCD screen, are carefully removed before operation.

2. Installing the Carbon Filter

The GKtwo features a built-in odor removal filter. Install the carbon filter into its designated slot at the rear of the printer.

Powerful Air Filter

Large volume activated carbon
(100*100*50mm)

4000 RPM high speed
purification fan



Figure 3: Powerful Air Filter. The diagram illustrates the large volume activated carbon filter and 4000 RPM high-speed purification fan, crucial for odor removal.

3. Power Connection

Connect the power cord to the printer and then to a suitable power outlet. Ensure the power switch is in the OFF position before connecting.

4. Build Plate and Resin Vat Installation

Install the resin vat onto the LCD screen area. Then, attach the build plate to the Z-axis arm. The GKtwo features a quick-release design for easy installation and removal.

User-friendly design



Figure 4: User-friendly Design. This image highlights the vertical flip-up cover, quick-release build plate, and screwless resin vat for convenient operation.

5. Build Plate Leveling

The GKtwo build plate is pre-leveled at the factory. However, it is recommended to verify the leveling before the first print or if print failures occur. Use the provided leveling paper.

1. Place the leveling paper on the LCD screen.
2. Lower the build plate until it gently presses the paper.
3. Ensure the paper can be pulled with slight resistance from all sides. Adjust if necessary using the Z-axis movement controls on the touchscreen.

OPERATING INSTRUCTIONS

1. Powering On and User Interface

Press the power button to turn on the printer. The 5-inch touch screen will display the user interface, allowing access to various functions.



Figure 5: User-Friendly UI. The interface provides real-time temperature monitoring and settings for the heating system, along with other printer information.

2. Heating System Operation

The GKtwo features a built-in PTC ceramic heating technology to maintain optimal resin temperature. You can set the desired temperature (77°F, 86°F, 95°F) via the system settings.

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Video 2: How does GKTwo heating system work? This video visually explains the internal heating mechanism and its benefits for resin printing.



Figure 6: GKtwo 8K Resin 3D Printer. The printer is shown alongside a highly detailed 3D printed model, demonstrating its capability.

3. Preparing Your Model for Printing

The GKtwo is compatible with popular slicers like Chitubox and UniFormation slicer. For optimal results, use UniFormation's recommended preset profiles.

- Import your 3D model (.STL, .OBJ, etc.) into your chosen slicer software.
- Adjust print settings (layer height, exposure time, lift speed, etc.) according to your resin type and desired print quality.
- Add supports as necessary for complex geometries.
- Slice the model and save the print file (.ctb) to the provided U disk.

10.3" Larger Build Volume

size: (228*128*245mm) | 1.1 times large



Model by Atlas 3DSS

Figure 7: Highly-detailed Printing. This image highlights the 8K monochrome screen with 7680x4320 px resolution and 29.6 micron XY resolution, enabling exceptional detail.

Non-submersible build plate

Save every drip

Gutter around
the edge

Easy to clean

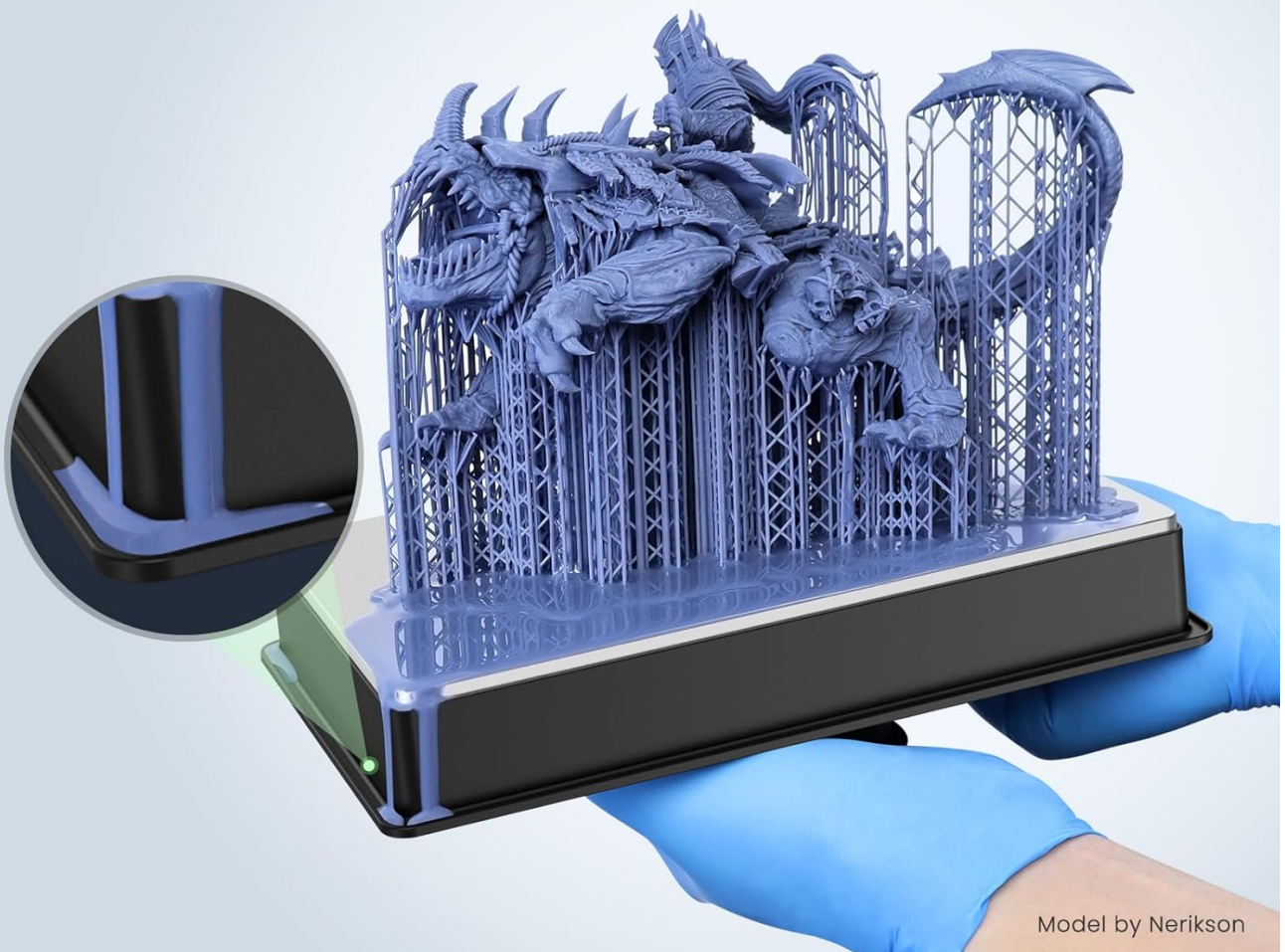


Figure 8: Non-submersible Build Plate. The design features a gutter around the edge to save resin drips and facilitate easy cleaning.

4. Starting a Print

1. Insert the U disk into the printer's USB port.
2. On the touchscreen, navigate to "U Disk" or "Built-in Storage" to select your print file.
3. Ensure the resin vat is filled with resin, not exceeding the MAX fill line (700g).
4. Confirm the print settings and press "Start" to begin printing.

Highly-detailed Printing

XY Resolution 29.7 μm
with square pixels

High-resolution Parallel Light
Source 7680*4320 px



Figure 9: Resin Filling. Fill the resin vat carefully, ensuring not to exceed the maximum fill line to prevent overflow during printing.

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Video 3: GKtwo 8K Resin Printer. This short video showcases the printer in action, highlighting its speed and precision during the printing process.

MAINTENANCE

1. Cleaning the Resin Vat and Build Plate

After each print, or if changing resin types, clean the resin vat and build plate thoroughly with isopropyl alcohol (IPA).

- Remove the build plate and scrape off any remaining resin. Clean with IPA.
- Carefully pour unused resin back into its bottle using a filter funnel.
- Clean the resin vat and FEP film with IPA. Avoid using sharp objects on the FEP film.

2. Replacing the Carbon Filter

The honeycomb carbon filters in the odor purification system should be replaced every 15 days for optimal air purity,

3. LCD Screen Protection

<p>Product Name: Resin 3D Printer</p> <p>Model: GKtwo</p> <p>Brand: Uniformation</p> <p>Country Origin: Made in China</p> <p>Production Batch No. QJ40C2E20V121-008</p> <p>Production Date: 2024/06/22</p>		<p>Manufacturer Address:</p> <p>Room 418, No.39 Bin Science and Technology East Road, North Development Zone, Zhongshan City, Guangdong Province 528412</p> <p>Uniformation Email: uniformation@2008163.com</p>	
<p>Name: CAILIE BAO TONGMEI NJJM</p> <p>Address: 1, B1 A NTA 1, OBERCHIA, OFFICINA 3, Puntalorda, Madrid,</p> <p>Email: succes@office23@hotmail.com</p>		<p>EU REP</p>	
<p>    </p>		<p>    </p>	
<p> FR ÉLÉMENTS D'EMBALLAGE A SÉPARER ET À DÉPOSER DANS LE BAC DE TRI </p>		<p> EN PLEASE DO NOT PLACE AT A HIGH PLACE TO AVOID FALLING </p>	
<p> ES NO LO COLUQUE EN UN LUGAR ALTO PARA EVITAR CAÍ DAS </p>		<p> DE Bitte nicht an einer hohen Stelle platzieren, um Stürze zu vermeiden </p>	
<p> IT Non posizionarlo in alto per evitare cadute. </p>		<p> PT Não colocar o aparelho em lugares altos para evitar quedas. </p>	
<p> NL Niet op een hoge plek plaatsen om vallen te voorkomen </p>		<p> PL Nie na wysokościach umiścić urządzenie, aby uniknąć upadku. </p>	
<p> UK Не вешайте на высокие места, чтобы избежать падений. </p>		<p> SE Placera inte på en hög plats för att undvika fall </p>	

TROUBLESHOOTING

Problem	Possible Cause	Solution
Print not sticking to build plate	Improper leveling, insufficient bottom exposure time, low resin temperature.	Re-level the build plate. Increase bottom exposure time in slicer. Use the built-in heating system to warm resin to optimal temperature (e.g., 77-95°F).
Print failures (partial prints, warped layers)	Incorrect exposure settings, insufficient supports, FEP film wear, resin contamination.	Adjust exposure time. Add more supports. Inspect and replace FEP film if damaged. Filter resin for debris.
Strong odor during printing	Carbon filter saturation, inadequate ventilation.	Replace the carbon filter. Ensure adequate room ventilation.

Problem	Possible Cause	Solution
Printer not powering on	Loose power connection, power supply issue.	Check all power connections. Contact customer support if the issue persists.

SPECIFICATIONS

Feature	Detail
Model	GKtwo
Build Volume	228 x 128 x 245 mm (10.3 inches)
LCD Screen	10.3" 8K Monochrome LCD
XY Resolution	29.6 microns
Light Source	Matrix Parallel Light Source
Heating System	Built-in PTC Ceramic Heating Technology (77°F, 86°F, 95°F settings)
Odor Filter	Honeycomb Carbon Filters (circulatory system)
Connectivity	USB
Compatible Slicers	Chitobox, UniFormation Slicer
Product Dimensions	14 x 12 x 18 inches
Item Weight	42 pounds
On-mode power consumption	130.0 watts


WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official UniFormation website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

You can also find additional resources and FAQs on the [UniFormation Store on Amazon](#).

A PDF version of the user manual is available for download: [User Manual \(PDF\)](#).

Related Documents - GKtwo

	<p>UniFormation GK3 Pro 3D Printer User Manual - Setup, Operation, and Maintenance Guide</p> <p>Comprehensive user manual for the UniFormation GK3 Pro 3D printer. Learn about setup, operation, product specifications, troubleshooting, and maintenance to ensure optimal performance.</p>
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