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› YOOPAI 3D Printer Enclosure User Manual

YOOPAI Premium Enclosure

YOOPAI 3D Printer Enclosure User Manual

Model: Premium Enclosure

1. PRODUCT OVERVIEW

The YOOPAI 3D Printer Enclosure is designed to provide an optimal and safe environment for your 3D printing operations. This enclosure features a ventilation kit, built-in LED lighting, and a thermo-hygrometer for precise environmental control. It is constructed from premium fireproof and dustproof materials, ensuring a constant temperature for improved print quality and reduced noise during operation.

Key features include:

- Enhanced illumination with a built-in LED light strip.
- Real-time temperature and humidity monitoring.
- Constant temperature environment for consistent print quality.
- Dustproof and fireproof construction for safety and print integrity.
- Effective noise reduction.
- Quick and easy installation.

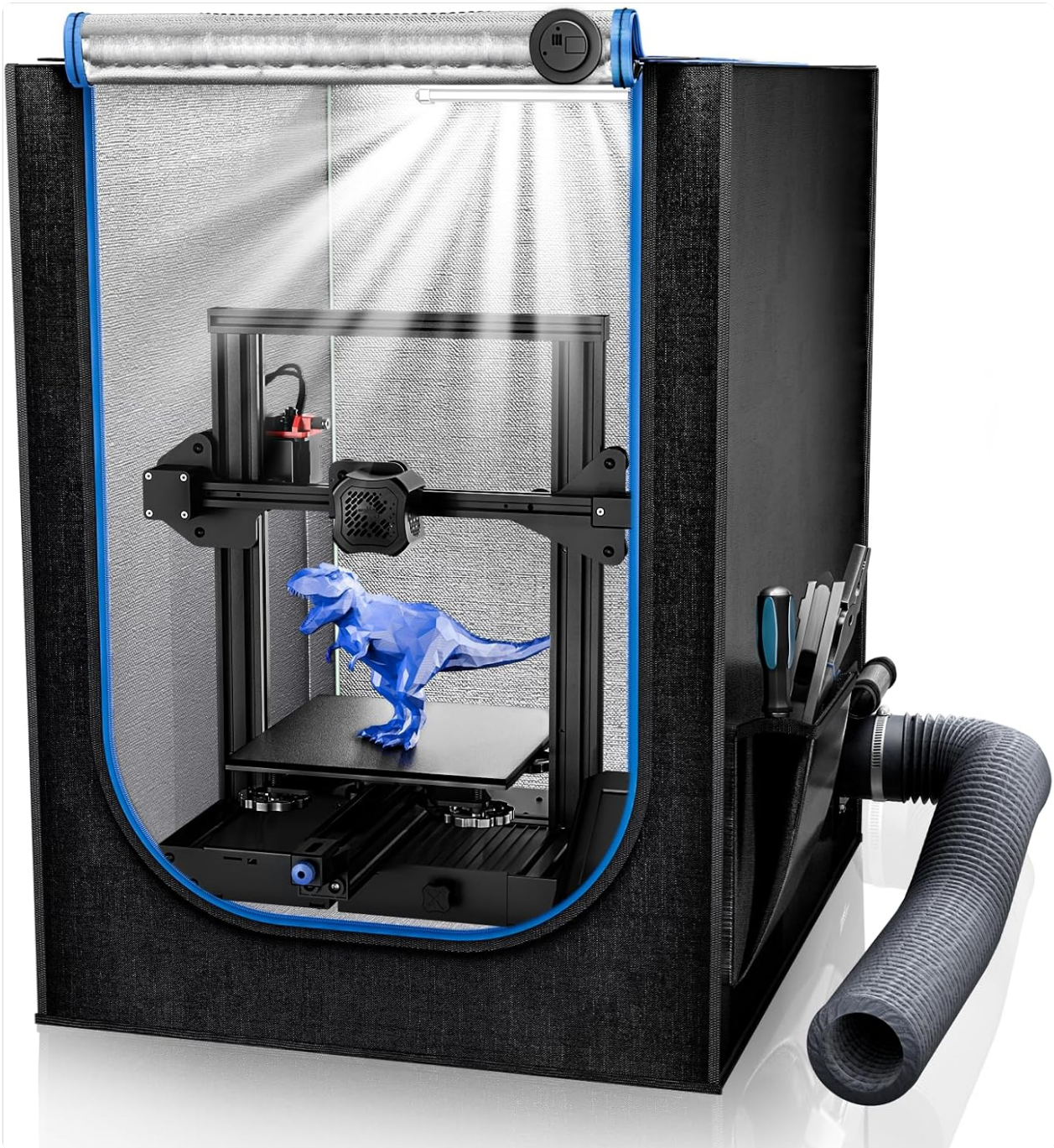


Image 1.1: The YOOPAI 3D Printer Enclosure, illustrating its compact design, internal LED lighting, and external ventilation system. A 3D printer is visible inside, actively printing a blue object.

2. SETUP AND INSTALLATION

The YOOPAI 3D Printer Enclosure is designed for quick and straightforward assembly. Follow these steps for proper setup:

1. **Connect Fiberglass Rods:** Connect the fiberglass rods of the same length to form the structural frame. Ensure all connections are secure.
2. **Assemble into Rectangular Frame:** Assemble the connected rods to form a stable rectangular frame.
3. **Put on the Cover:** Carefully place the enclosure cover over the assembled frame, ensuring it fits snugly and aligns with all openings.

4. **Install the Light Strip:** Securely install the built-in LED light strip inside the enclosure, typically at the top, to provide optimal illumination for your printing area.
5. **Install Exhaust Pipes:** Attach the ventilation exhaust pipes to the designated port on the enclosure. Ensure a tight seal to effectively manage air quality and temperature. The scalable extension can reach up to 2 meters.

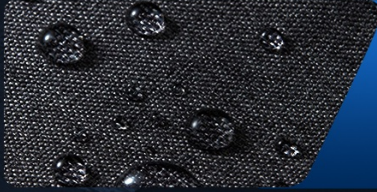
UNLEASH THE POWER OF SUPERIOR PERFORMANCE

Unlock the full potential of your 3D printing with our high-performance enclosure solution.



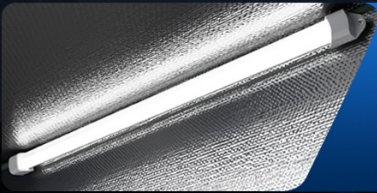
Fireproof

Fireproof and safer flame-retardant materials prevent accidental fires.



Waterproof

Waterproof glass fabric cloth avoids themoisture effect on printing quality.



LED Light

Built in lighting for easy observation of printing progress.



Thermo-hygrometer

Keep track of the temperature and humidity of the printing environment at all times.

Image 2.1: Visual representation of the simple 5-step installation process for the YOOPAI 3D Printer Enclosure.

3. OPERATING INSTRUCTIONS

3.1. Powering On and LED Light Operation

Once the enclosure is assembled and your 3D printer is placed inside, connect the power supply for the LED light strip. The built-in LED light provides ample illumination for monitoring your print progress, even in low-light conditions. This allows for quick identification of potential issues such as filament jams or layer adhesion problems.



Built in LED Lighting

For easy observation of printing conditions
Now Updated to Lighting

YCOPAI | 3D Printer Enclosure

- ✓ Observable Progress
- ✓ Accurate Printing
- ✓ Bright Inside



Other 3D Printer Enclosure

- ✗ Darkness inside
- ✗ Imprecise printing
- ✗ Unobservable progress



Image 3.1: The enclosure with its integrated LED lighting, demonstrating improved visibility compared to an unlit enclosure.

3.2. Temperature and Humidity Monitoring

The enclosure is equipped with a thermo-hygrometer to provide real-time readings of the internal temperature and humidity. This feature is crucial for maintaining optimal printing conditions, which helps in achieving higher quality prints and reducing print failures. Monitor these readings regularly to ensure a stable environment.

Temperature & Humidity Monitoring

Internal constant temperature and real-time temperature and humidity readings keep your prints at the perfect temperature for flawless results.



 stable structure	 Dustproof
 Fireproof	 waterproof
 Less Noise	 Easy to Assemble
 Large Size	 Heat Resistant
 Wide Compatibility	 Avoid Pet Touch



Image 3.2: The thermo-hygrometer displaying temperature and humidity, highlighting the enclosure's environmental control capabilities.

3.3. Ventilation System

The integrated ventilation kit helps in eliminating odors and improving air quality within your printing area. Ensure the exhaust pipes are properly installed and routed to an appropriate ventilation point. This system contributes to a safer and more pleasant working environment.

Eliminating odors and improving air quality



Image 3.3: The enclosure's ventilation system with an extended hose, designed to remove fumes and maintain air quality.

4. MAINTENANCE

To ensure the longevity and optimal performance of your YOOPAI 3D Printer Enclosure, regular maintenance is recommended:

- **Cleaning:** Wipe down the exterior and interior surfaces with a soft, damp cloth. Avoid abrasive cleaners that could damage the material.
- **Ventilation System:** Periodically check the ventilation pipes for any obstructions or kinks. Ensure the fan (if applicable) is free of dust buildup.
- **Material Integrity:** Inspect the fabric and frame for any signs of wear, tears, or damage. Address any issues promptly to maintain the enclosure's protective properties.
- **Storage:** If disassembling for storage, ensure all components are clean and dry. Store in a cool, dry place away from direct sunlight.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your 3D printer enclosure.

Problem	Possible Cause	Solution
Inconsistent Print Quality	Temperature fluctuations inside the enclosure.	Ensure the enclosure is fully sealed. Monitor the thermo-hygrometer to confirm stable temperature. Avoid opening the enclosure frequently during prints.
Excessive Noise	Printer vibrations or external noise not fully contained.	Verify all enclosure zippers and seams are closed. Ensure the printer is stable on its base within the enclosure.
Poor Air Quality/Odors	Ineffective ventilation.	Check that the ventilation hose is properly connected and routed to an exhaust point. Ensure there are no kinks or blockages in the hose.
LED Light Not Working	Power connection issue or faulty light strip.	Verify the power cable for the LED light is securely connected. If issues persist, contact customer support.

6. SPECIFICATIONS

Feature	Detail
Brand	YOOPAI
Model Name	Premium Enclosure
Product Dimensions	65.02 x 54.86 x 74.93 cm (25.6 x 21.6 x 29.5 inches)
Item Weight	2.59 kg
Material Type	Premium flame fireproof fabric + metal + plastic
Color	Black
Included Components	Aluminum platinum cloth, fiberglass rods
Special Features	Built-in LED light, Thermo-Hygrometer, Ventilation Kit, Fireproof, Dustproof, Noise Reduction, Constant Temperature
Batteries Included	Yes (1 LR44 for thermo-hygrometer)

Universal Compatibility



Please measure the size before ordering

Enjoy hassle-free printing with our universally compatible solution

Creality:

Ender-3 V3 SE/KE
Ender-3/3Pro/ 3 V2
Ender-3 V2 Neo/3 S1/3 Neo
Ender-5 Pro/Ender-5 S1

ELEGOO:

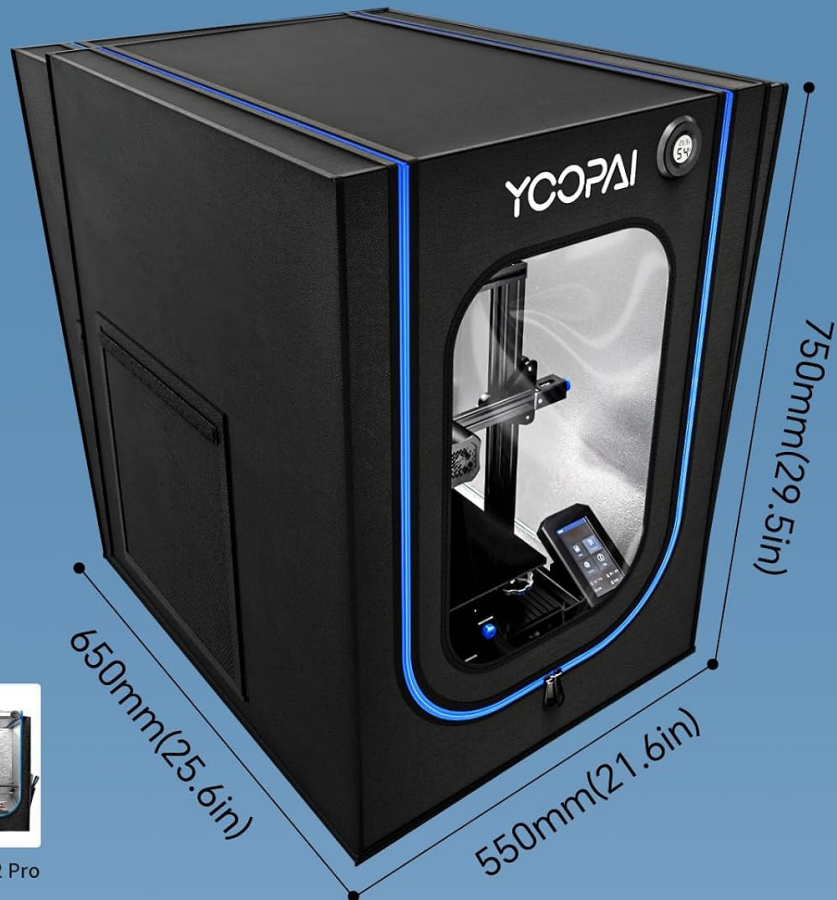
Neptune 2S
Neptune 3 pro
Neptune 4
Neptune 4 pro

Anycubic:

Kobra 2 Neo/ 2 Pro
Kobra 3

AnkerMake:

M5/M5C



Ender3 Pro Ender5 Pro Ender2 Pro

Image 6.1: Dimensional specifications and universal compatibility details for the enclosure.

7. COMPATIBILITY

The YOOPAI 3D Printer Enclosure is designed for wide compatibility with various 3D printer models. Please measure your printer's height (including the spool holder) to ensure it is smaller than 29.5 × 25.6 × 21.6 inches (74.93 × 65.02 × 54.86 cm) before ordering.

Compatible models include, but are not limited to:

- **Creality:** Ender 3V2, 3V2 Neo, Ender 3S1, 3S1 Pro, Ender 3Pro, Ender 3, 3Neo, Ender 3Max/Neo, Ender 6SE, Ender 5, 5Pro, 5S1, Ender-3 V3 SE/KE/Pro
- **Anycubic:** Kobra, Mega Pro, Kobra 2 Neo/2 Pro, Kobra 3
- **ELEGOO:** Neptune 3D Printer, Neptune 2S, Neptune 3 Pro, Neptune 4, Neptune 4 Pro
- **AnkerMake:** M5/M5C

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts, please refer to the manufacturer's official website or contact YOOPAI customer service directly. Contact details are typically provided with your product packaging or on the brand's online store page.

Note: Specific warranty terms and support procedures may vary. Always consult the latest information provided by the manufacturer.

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This manual is for informational purposes only. Product specifications are subject to change without notice.