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> YOOPAI Pro Filament Storage Box User Manual

## YOOPAI FilamentBox4

# YOOPAI Pro Filament Storage Box User Manual

Model: FilamentBox4

## INTRODUCTION

The YOOPAI Pro Filament Storage Box is designed to protect your 3D printer filament from moisture and dust, ensuring optimal printing performance. This airtight container features a built-in temperature and humidity monitor, allowing you to easily observe storage conditions. It is suitable for 1KG 1.75mm filament spools of various materials, including PLA, ABS, PETG, and TPU.

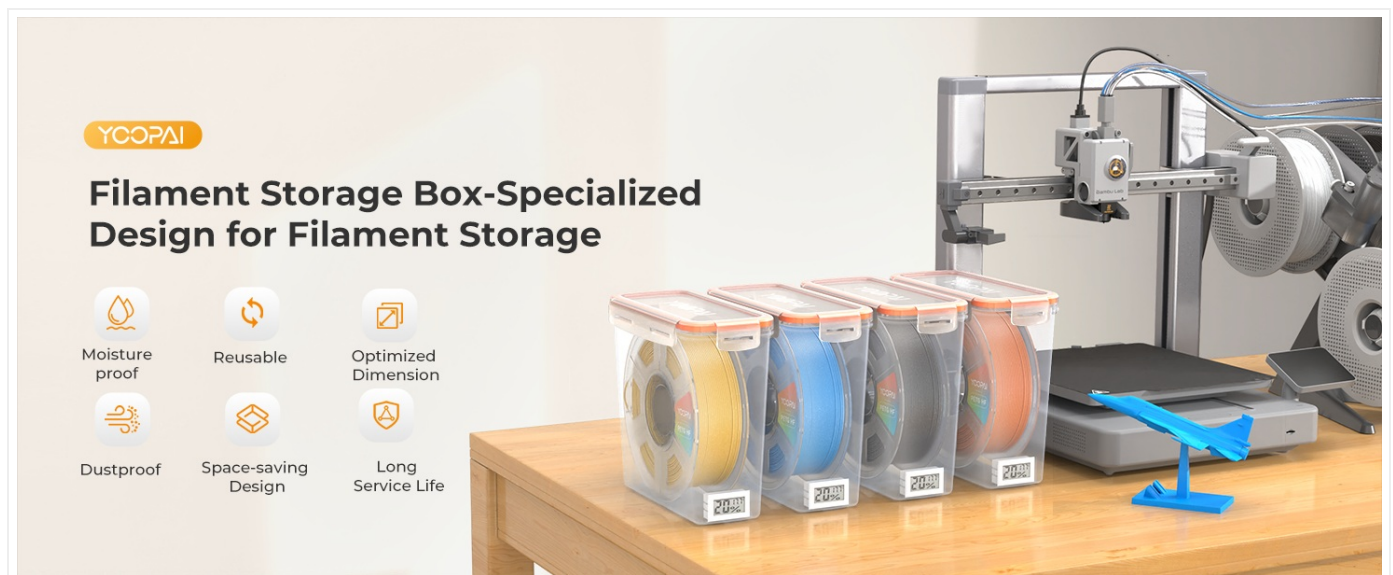


Image: YOOPAI Pro Filament Storage Boxes, showcasing their transparent design and integrated humidity monitors for various filament types.

## PACKAGE CONTENTS

Verify that all components are present in your package:

- Filament Box (x4)
- 15g Desiccants (x8)

- Thermo-Hygrometer (x4)

# What Will You Get

- 15g Dessiccants\*8
- Filament Box\*4
- Thermo-Hygrometer\*4



Image: Contents of the YOOPAI Pro Filament Storage Box package, showing the box, desiccant packs, and thermo-hygrometers.

## SETUP INSTRUCTIONS

1. **Prepare the Box:** Gently pinch the top of the storage box and pull out the inner components if any are pre-inserted.

2. **Insert Thermo-Hygrometer:** Locate the designated slot at the bottom front of the box. Carefully insert the thermo-hygrometer into this slot until it is secure and the display is visible from the outside.
3. **Add Desiccant:** Open the desiccant packs and place them inside the storage box. It is recommended to distribute them around the filament spool for optimal moisture absorption.
4. **Place Filament Spool:** Insert your 1KG 1.75mm filament spool into the box. Ensure it sits securely.
5. **Close the Lid:** Securely close the lid, ensuring the silicone seal is properly aligned and the locking clips are engaged on all sides to create an airtight environment.



Image: Visual guide for setting up the YOOPAI Pro Filament Storage Box.

## Setup Video Guide



Video: Official YOOPAI guide demonstrating the setup and features of the Pro Filament Storage Box.

## OPERATING INSTRUCTIONS

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### Monitoring Temperature and Humidity

The integrated thermo-hygrometer provides real-time readings of the temperature and humidity inside the storage box. Regularly check these readings to ensure your filament is stored in optimal conditions. Ideal humidity levels for most filaments are typically below 20%.



# Real-Time Humidity Monitoring

Built-in slot for a **thermo-hygrometer** to keep track of the storage environment at a glance

Image: Real-time humidity monitoring display on the YOOPAI Pro Filament Storage Box.

## Filament Identification

Each box includes a slot for printable labels, allowing for quick identification of the filament material, color, or brand. This helps maintain an organized storage system and streamlines your 3D printing workflow.



## Quick Material Identification at a Glance

Designed with a convenient label slot, making it easy to mark different materials like PLA, PETG, or TPU (See user manual for details)

Image: Filament storage boxes with label slots for quick material identification.

## MAINTENANCE

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### Desiccant Management

The included desiccants are reusable. When the humidity levels inside the box consistently rise above desired levels, or if the desiccant changes color (if applicable), it indicates saturation. To reactivate, follow the instructions provided with the desiccant packs, typically involving heating them in an oven to remove absorbed moisture.

### Cleaning the Storage Box

Clean the storage box periodically with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the plastic or the silicone seal. Ensure the box is completely dry before re-inserting filament and desiccant.

### Seal Inspection

Regularly inspect the silicone seal around the lid for any signs of wear, cracks, or damage. A compromised seal can reduce the airtight effectiveness of the box. Replace the seal if necessary to maintain optimal moisture protection.

# Protect Your Filaments

Includes Color-Changing Desiccant



For Passive Moisture Control

Splash-Resistant Design



Helps protect filament from accidental water splashes

Dust-Resistant Design

Keeps filament safe from external dust




Image: Features highlighting desiccant inclusion, splash-resistance, and dust-resistance for filament protection.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
High humidity readings inside the box.	Desiccant is saturated; lid not properly sealed.	Reactivate or replace desiccant. Ensure the lid is securely closed and the silicone seal is intact.

Problem	Possible Cause	Solution
Filament issues (e.g., stringing, poor adhesion, clogging) after storage.	Filament has absorbed moisture.	Dry the filament using a dedicated filament dryer or oven (refer to filament manufacturer's guidelines). Ensure the storage box maintains low humidity.
Thermo-hygrometer display is blank or inaccurate.	Battery depleted; sensor malfunction.	Replace the battery in the thermo-hygrometer. If the issue persists, contact customer support.

### Premium Filament Storage Solution



- No Clogging
- No Stringing
- No Layer Shift
- Bubbles
- Layer Shift
- Printer Clogging





- Clogging
- Poor Adhesion
- Stringing
- Good Adhesion
- No Bubbles
- Smooth Printing

Image: Benefits of proper filament storage, preventing common printing issues.

## SPECIFICATIONS

Feature	Detail
Brand	YOOPAI
Model Number	FilamentBox4
Material	Acrylonitrile Butadiene Styrene, Polyethylene Terephthalate Glycol, Polylactic Acid, Thermoplastic Polyurethane
Item Weight	1.74 Kilograms (for the set of 4)
Compatible Filament Diameter	1.75 Millimeters (for 1KG spools)
Special Features	Built-in Temperature & Humidity Monitor, Desiccant-Based Moisture Control, Enhanced Airtight Sealing
Number of Items	4 (Filament Boxes)

# Precision Fit for Single Filament Spool

Optimized dimensions reduce unused internal space for more compact, efficient storing



Image: Dimensions and spool compatibility of the YOOPAI Pro Filament Storage Box.

## WARRANTY AND SUPPORT

For detailed warranty information, product support, or to inquire about replacement parts, please refer to the official YOOPAI website or contact their customer service directly. Contact information can typically be found on the product packaging or the manufacturer's official online channels.



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