MYNT3D MP012-WH OLED Display Printing Pen User Manual

Contents

MYNT3D MP012-WH OLED Display Printing Pen

Please read through this user manual completely before use.

WARNING

- BURN HAZARD. The ceramic nozzle of this device can become extremely hot.
- DO NOT touch the tip or any melted plastic or you may be severely burned.
- DO NOT allow the tip near or in contact with flammable materials.
- Inform others in the area that the unit is hot and should be handled with care.
- Allow the tip to cool completely after use and before storing.
- The hot tip may cause damage to painted surfaces, plastics, and cloth if left in contact with these materials.
- Only use 1.75mm ABS and PLA filament.
- ADULT USE ONLY. KEEP OUT OF REACH OF CHILDREN.

WARNING


DO NOT use this appliance near bathtubs, showers, basins, or other vessels containing water.

This marking indicates that this product should not be disposed of with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote sustainable reuse of material resources.

WARNING: This 3D Pen – when used with a styrene filament (ABS / HIPS / or PC-ABS) – can expose you and others in the same room to styrene, a chemical known to the State of California to cause cancer. www.P65Warnings.ca.gov.

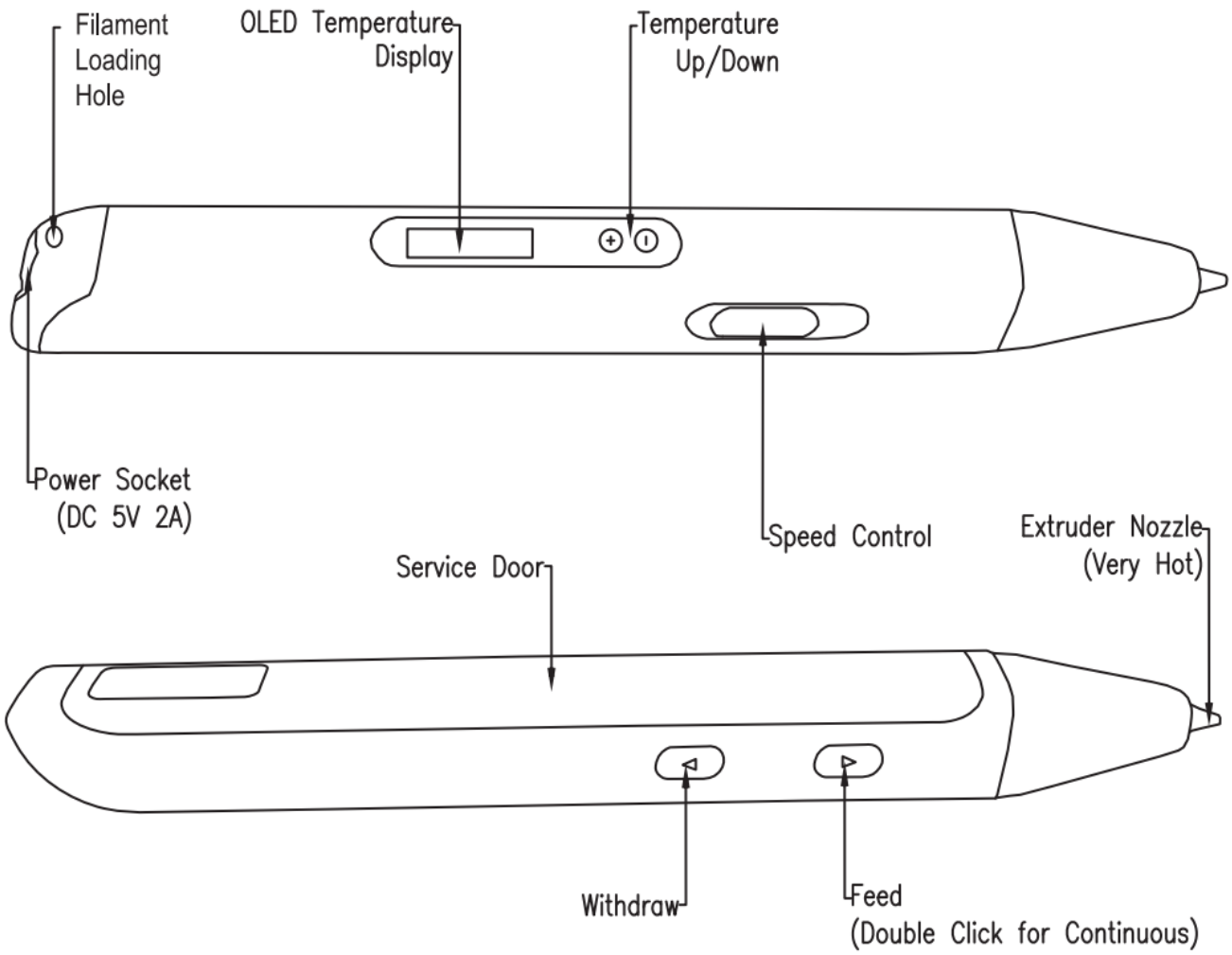
ALWAYS OPERATE THIS PRODUCT IN A WELL-VENTILATED AREA.

Components

Please take a moment to verify you received all the components.

1. 3D Printing Pen
2. AC Adapter
3. USB Power Cable
4. Plastic Screwdriver (for service door removal)
5. (3) Rolls of PLA Filament
6. Phillips Screwdriver (for nozzle removal)

Features and Controls of your 3D Printing Pen



Operation Instructions

1. Connect the AC Adapter and USB Power Cable to a power outlet. Insert the plug into the power socket.
   Note: This 3D pen can be used with power banks that output at least 2 amps. This way you are not tethered to a wall outlet.
2. Adjust temperature (if desired) press the feed button and release. Keep an eye on the temperature display and wait for the pen to heat to temperature.

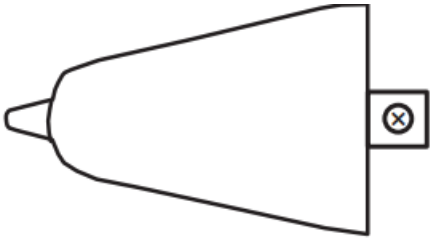
3. Straighten the end of the filament if necessary and insert it into the filament loading hole until it stops. Press and hold, or double-click the feed button to load filament into the pen. Sliding the speed control all the way up will make this process faster.
4. Start your drawing on a flat surface. Polycarbonate, or glass with a thin layer of washable glue stick makes for an optimal work surface, but you can use anything that is heat-safe and your filament adheres to.
   Double-click the feed button for continuous feed. Pressing the load or withdraw button once will exit continuous feed mode.

Changing Colors

1. Bring your 3D Pen up to temperature.
2. Press and hold the withdraw button until the filament is free.
3. Ensure the new filament is cut correctly and loaded into the pen.

Nozzle Maintenance

- If you believe your nozzle is clogged, back out the filament and cut a new end. Then open the service door and remove the nozzle to check if there is a piece that can be removed. If it's still clogged, try raising the temperature to melt the clog. However, if you find you are unable to remove the filament, please note the nozzle is modular and easily replaced. Replacement nozzles are available at mynt3d.com.



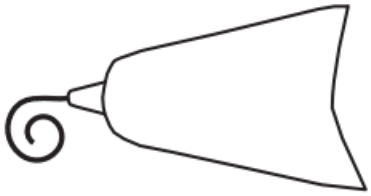
- To check for a jam or replace the nozzle, start by prying open the service door with a thin, flat tool. Use an eyeglasses-size Phillips screwdriver to remove the screw holding in the nozzle. Slide out the nozzle, wiggling carefully if you encounter resistance.

Quick Tips

- View our initial setup walkthrough video at: **www.mynt3d.com/pages/tips**
- Use lower temperatures than filament manufacturers suggest for 3D printers:
  - **ABS:** >190 C
  - **PLA:** <190 C
- If the feed motor begins to struggle stop operation and back out the filament. Try cutting a new end before continuing. If the motor continues to struggle there may be a piece of broken filament stuck inside. See the Nozzle Maintenance section for further instructions.

Filament Tips and Notes

- When changing from PLA to ABS filament, the nozzle may emit a small amount of smoke from the increased temperature. PLA is plant-based and does not release any toxic fumes when overheated.
- Depending on the filament being used, plastic may continue to extrude slightly after the feed button is released. This effect is often more pronounced with PLA and is a symptom of commercial 3D printers as well. Decreasing the temperature slightly can help.

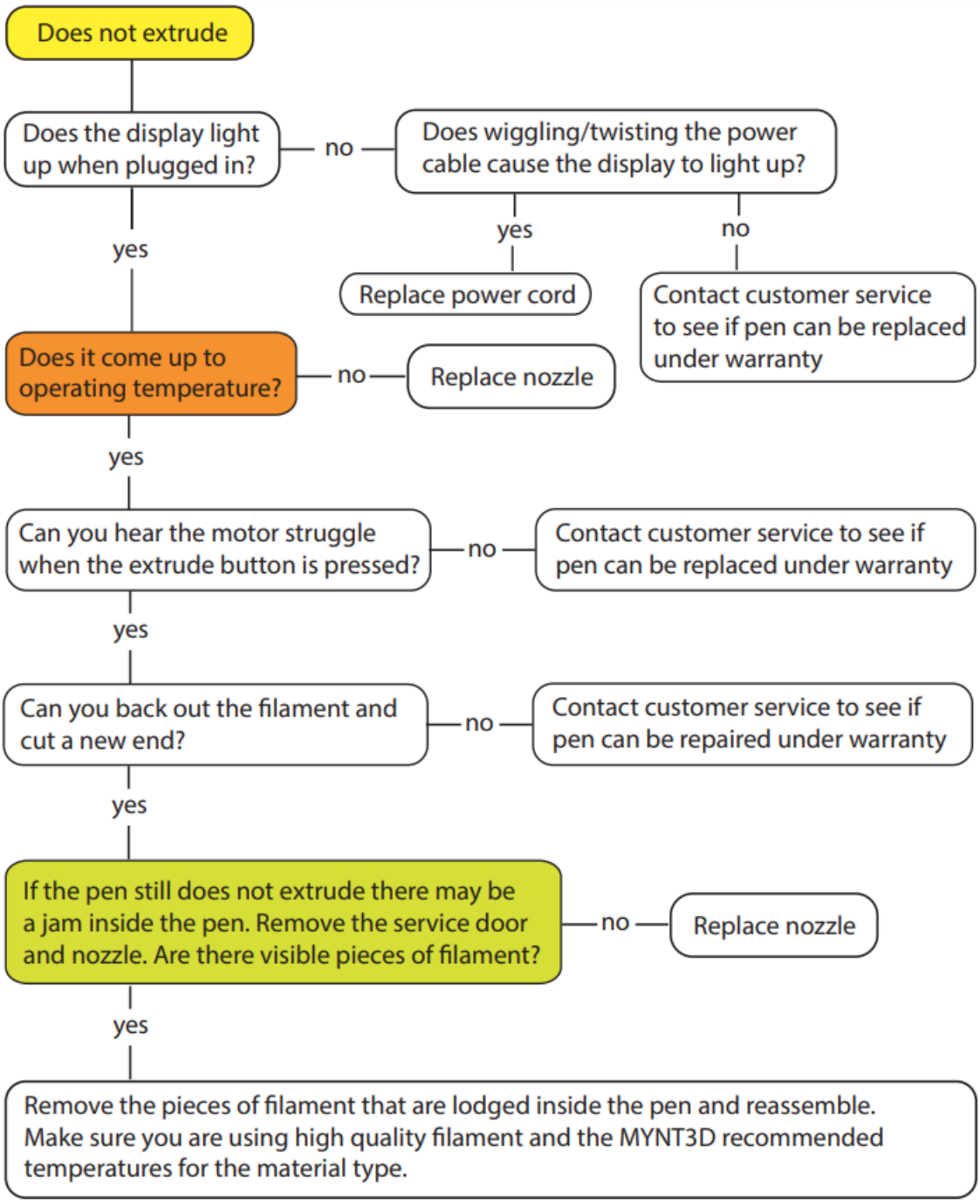


- It is advised to only use the withdraw button when changing filament. If the filament is only partially withdrawn it can deform in the barrel and the pen will not extrude. If this happens you should fully withdraw the filament and cut off the deformed section.
- Filament quality varies greatly, and even reputable brands can release bad batches. If your 3D pen is behaving abnormally, a good first step is to try another roll of filament. Also, ABS and PLA filaments are damaged by excess humidity. It is good practice to store your filament in a sealed and dry location.

Specifications

- **Discharging mode:** hot melt extrusion
- **Print Range:** unlimited
- **Feeding Speed:** adjustable
- **Print Material:** ABS/PLA
- **Material Diameter:** 1.75mm
- **Nozzle Diameter:** 0.60mm
- **Nozzle Temperature:** 130-230°C
- **Power Output:** 10W
- **Power Input:** 5VDC 2A
- **Power Adapter:** 100-240VAC 50/60Hz
- **Equipment Dimension:** 175 x 20 x 17mm
- **Equipment** Weight: 40g
- **Certifications:** FC CC RoHS

Troubleshooting



Limited 1-Year Warranty

We stand by our products and offer a 1-year limited warranty that covers defects in manufacture. For more information visit: www.mynt3d.com/pages/warranty

Contact information: MYNT3D

- 159 W Broadway STE 200 PMB 143 Salt Lake City, UT 84101
- support@mynt3d.com
- [800-695-5994](tel:800-695-5994)

FAQs

What is the main purpose of the MYNT3D MP012-WH OLED Display Printing Pen?

The MYNT3D MP012-WH OLED Display Printing Pen is designed for creative applications like 3D modeling, sculpting, drafting, prototyping, and spatial learning.

What types of filaments are compatible with the MYNT3D MP012-WH OLED Display Printing Pen?

The MYNT3D MP012-WH is compatible with 1.75mm filaments, including PLA, ABS, and other thermoplastics that melt between 140°C and 230°C.

What is the recommended temperature for using PLA with the MYNT3D MP012-WH OLED Display Printing Pen?

The recommended temperature for using PLA with the MYNT3D MP012-WH is 175°C for optimal flow and precision.

What is the advantage of the OLED display on the MYNT3D MP012-WH OLED Display Printing Pen?

The OLED display allows users to monitor real-time temperature and filament flow for accurate adjustments and smoother operation.

How does the MYNT3D MP012-WH OLED Display Printing Pen achieve ergonomic design?

The MYNT3D MP012-WH is lightweight and features a slim, ergonomic design that reduces fatigue and allows better control for extended use.

What is the purpose of the adjustable feed in the MYNT3D MP012-WH OLED Display Printing Pen?

The adjustable feed allows users to regulate speed and filament flow for optimal control, whether for intricate designs or faster fills.

What comes included with the MYNT3D MP012-WH OLED Display Printing Pen?

The MYNT3D MP012-WH comes with three colors of PLA filament, a USB adapter, and a 1-year limited warranty.

What is the weight of the MYNT3D MP012-WH OLED Display Printing Pen?

The MYNT3D MP012-WH weighs 11.99 ounces, ensuring portability and ease of use.

References

- **User Manual**
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