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MYNT3D MP017-3M

MYNT3D Super 3D Pen MP017-3M User Manual

Model: MP017-3M

1. INTRODUCTION

Welcome to the MYNT3D Super 3D Pen user manual. This guide provides comprehensive instructions for the safe and effective operation, setup, and maintenance of your MYNT3D Super 3D Pen, model MP017-3M. This device allows you to create three-dimensional objects by extruding heated plastic filament, offering a unique artistic and prototyping experience.



Image 1.1: The MYNT3D Super 3D Pen, its retail box, and an example 3D creation.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the MYNT3D Super 3D Pen. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Hot Nozzle:** The pen's nozzle and surrounding area become extremely hot during operation (up to 270°C) **Do not**

touch the nozzle with bare hands or any part of your body.

- **Flammable Materials:** Keep the pen away from flammable materials, liquids, and gases.
- **Ventilation:** Use the pen in a well-ventilated area. Some filaments may produce fumes when heated.
- **Children:** This product is not a toy. Adult supervision is required for users under 14 years of age.
- **Power Supply:** Use only the provided power adapter. Do not use damaged power cords or adapters.
- **Water Exposure:** Do not expose the pen to water or operate it with wet hands.
- **Unplug When Not in Use:** Always unplug the pen when not in use or before cleaning.
- **Filament Type:** Ensure you are using the correct filament type (ABS or PLA) for the selected temperature setting.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- MYNT3D Super 3D Pen (MP017-3M)
- Power Adapter (100-240V AC 50/60Hz, Output: 5V/DC 2A)
- ABS Filament Refill Pack (10 colors, 3 meters each)
- User Manual (this document)



Image 3.1: The included 10-color ABS filament refill pack.

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your MYNT3D Super 3D Pen.



Image 4.1: The MYNT3D Super 3D Pen. Note the power input, filament loading port, and extrusion nozzle.

Key Components:

- **Nozzle:** The hot tip where melted filament exits.
- **Filament Loading Port:** Where filament is inserted into the pen.
- **Power Port:** Connects the pen to the power adapter.
- **Extrusion Speed Control:** Stepless variable control to adjust filament flow rate.
- **Temperature Adjustment:** Buttons or dial to select between ABS and PLA temperature settings.
- **Status Indicator Lights:** Indicate power, heating status, and readiness.

5. SETUP

1. **Connect Power:** Insert the power adapter cable into the power port on the pen. Plug the adapter into a standard electrical outlet.
2. **Power On:** The pen will typically power on automatically when connected. The status indicator light will illuminate.

3. **Select Filament Type:** Use the temperature adjustment controls to select either ABS or PLA mode, depending on the filament you intend to use.
4. **Preheat:** The pen will begin to preheat to the selected temperature. The indicator light will change (e.g., from red to green) when the pen is ready for use. This usually takes 30-60 seconds.

6. OPERATING INSTRUCTIONS

6.1 Loading Filament

1. Ensure the pen is preheated and ready (indicator light is green).
2. Straighten the end of the filament you wish to load.
3. Insert the straightened end of the filament into the filament loading port.
4. Gently push the filament until the pen's internal motor catches it and begins to feed it automatically. Do not force the filament.
5. Wait a few seconds for the filament to melt and extrude from the nozzle.

6.2 Adjusting Extrusion Speed

The MYNT3D Super 3D Pen features a stepless variable extrusion speed control. Rotate the speed control dial to increase or decrease the flow rate of the filament. Experiment with different speeds to find the optimal setting for your project and drawing style.

6.3 Creating 3D Art

Once filament is extruding, you can begin drawing.

- Start by drawing on a flat, heat-resistant surface.
- Move the pen steadily to create lines and shapes.
- To build vertically, draw a base layer and then draw upwards, allowing each layer to cool slightly before adding the next.
- For best results, maintain a consistent distance between the nozzle and your drawing surface.

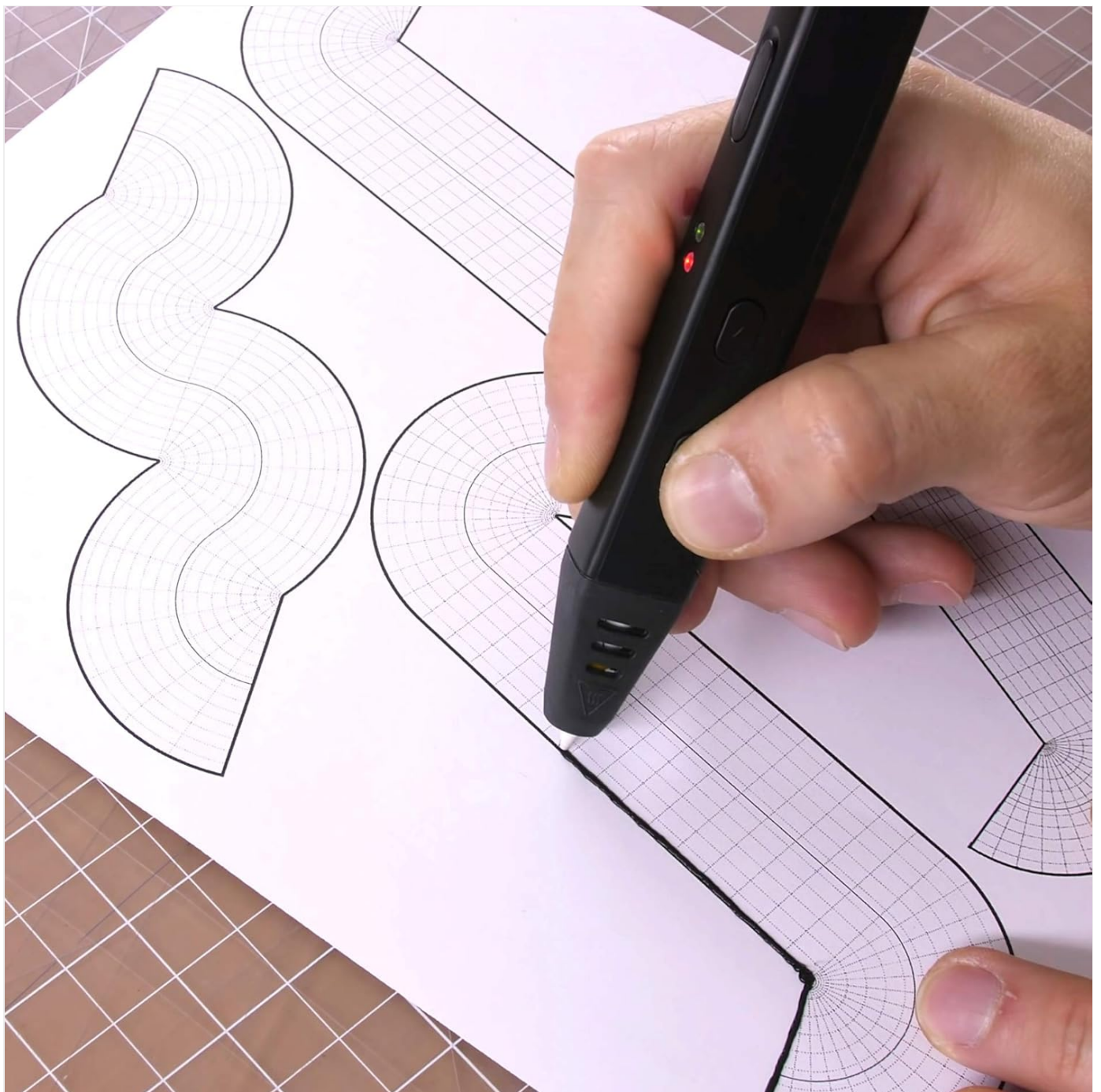


Image 6.3.1: Using the 3D pen to trace a design, a common starting point for 3D creations.



Image 6.3.2: An example of a 3D structure being created with the pen, demonstrating vertical building.

6.4 Unloading Filament

1. Press the filament unload button (refer to your pen's specific button layout if not clearly marked).
2. The pen's motor will reverse, pushing the filament out of the loading port.
3. Once the filament is fully extracted, remove it from the pen.
4. It is recommended to unload filament after each use to prevent clogs, especially if changing filament types or colors.

7. MAINTENANCE

- **Cleaning the Nozzle:** If the nozzle becomes clogged or has excess plastic, ensure the pen is unplugged and cooled. Carefully remove any hardened plastic with a small tool. Do not use abrasive materials.
- **Storage:** Store the pen in a dry, cool place away from direct sunlight. Unload filament before long-term storage.
- **Filament Storage:** Keep filament in a sealed bag or container to prevent moisture absorption, which can affect printing quality.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Filament not extruding	<ul style="list-style-type: none">• Pen not preheated• Filament not loaded correctly• Nozzle clogged• Incorrect temperature setting	<ul style="list-style-type: none">• Wait for the indicator light to turn green.• Ensure filament is fully inserted and caught by the motor.• Unload filament, clean nozzle, and try again.• Verify ABS/PLA setting matches filament type.
Filament jams or stops feeding	<ul style="list-style-type: none">• Filament bent or tangled• Nozzle partially clogged• Filament end not straight	<ul style="list-style-type: none">• Unload filament, straighten, and reload.• Unload filament, clean nozzle.• Trim and straighten the filament end before loading.
Poor extrusion quality (uneven, bubbly)	<ul style="list-style-type: none">• Moisture in filament• Incorrect temperature• Speed too high/low	<ul style="list-style-type: none">• Store filament in a dry environment.• Adjust temperature slightly.• Adjust extrusion speed control.

9. SPECIFICATIONS

Feature	Detail
Model	MP017-3M
Compatible Filament	1.75mm ABS, PLA
Power Input	5V/DC 2A
Power Output	10 Watts
Material (Pen)	Acrylonitrile Butadiene Styrene (ABS), Polylactic Acid (PLA)
Certifications	FCC, CE, RoHS
Filament Refill Pack	10 colors, 3 meters each (ABS)



Image 9.1: Filament specifications as shown on the refill pack. Note the recommended temperature range for ABS.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or assistance with your MYNT3D Super 3D Pen, please visit the official MYNT3D website or contact their customer service department. Details can typically be found on the product packaging or the brand's online store.

You can visit the MYNT3D Store for more information: [MYNT3D Official Store](#)

