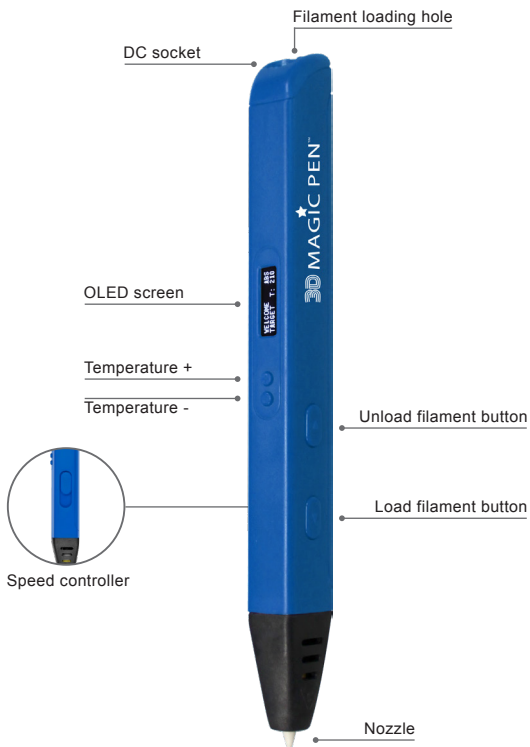


# Instruction Manual

# 3D MAGIC PEN™

Model #: MPEN

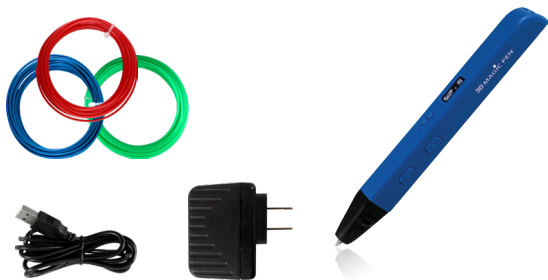




**CAUTION:** Do not touch the nozzle of this pen as it becomes extremely hot, as is the filament when first extruded.

## In the Box

- Three coils of colored filament
- AC/DC adapter
- Power cord
- User manual
- 3D Magic Pen



### Note:

1. Heating time may be affected by environmental temperature.
2. The filament end should be cut correctly before loading (see page 6).
3. Unload filament when you have finished drawing.

## Operation Instructions

1. Connect AC/DC adapter to AC power socket and 3D Magic Pen DC power socket (or use the USB cable to connect with power bank which outputs more than 2 Amps). When the OLED screen is on, it means power is connected.
2. Press the filament loading button, it will start to heat, and the screen will display the temperature. When it reaches the target, it means it is ready to load the filament.
3. Insert the 1.75mm filament into the filament loading hole. Keep pressing the filament loading button and the material will be loaded. Hold until plastic material comes out of the nozzle. This means the filament is ready. (Double clicking on the load button to load the filament automatically. Press the button again to exit automatic mode).
4. Temperature adjustment: press the temperature + and - button to adjust the temperature. Temperature range is 266°F – 464°F. When the pen is turned on, it will automatically reach the default temperature setting of 410°F, which is a proper temperature for using ABS filaments.
5. Speed adjustment: Adjust the speed of the filament feed by sliding the speed controller switch.
6. Press and hold the unload filament button and filament will slowly eject from the 3D pen. Double-click the unload button to remove filament automatically.
7. Press increase temperature button and unload filament button at the same time to switch back and forth from ABS to PLA. Also, the ABS/PLA mode can be selected by simply increasing and decreasing temperature. The pen must be set for the ABS mode or temperature must be set at 410°F when using ABS filaments. The 3D Magic Pen™ must be set for the PLA mode or temperature must be set at 347°F when using PLA filaments.  
**Note:** Only ABS filaments are supplied by the manufacturer at this time.
9. The pen enters standby mode after 2 minutes of no operation. Press the filament loading button to resume.

## Troubleshooting

Problem	Reason	Solution
No filament is coming out from nozzle	Insufficient temperature	Adjust the temperature
	Slipping gear	Remove the filament and cut off the damaged filament then reload
	Filament loading failure	Unload the stuck filament and cut off the end of filament cleanly then reload

## Filament Accessory Parts and Specifications:



### Filament ring:

- **Model #:** MPFB
- 10 feet long
- 1.75mm thickness
- 15 colors available



### Filament roll:

- **Model #:** MPFBLU, MPFRED, MPFGRN, MPFWHT, MPFPPL, MPFBLK
- Approximate 980 feet long
- 1.75mm thickness
- 6 colors available

**Note:** When not in use, keep your filaments in an airtight, re-sealable plastic bag away from direct sunlight.

## Filament Cut



Correct



Wrong



Wrong

## Specifications

- Feeding speed: Adjustable
- Filament types: ABS or PLA  
(Note: PLA filaments are not supplied by the manufacturer)
- Electric parameter: DC5V 2A 10W
- Nozzle diameter: 0.6mm
- Filament diameter: 1.75mm
- Filament operating temperature: 410°F for ABS or 347°F for PLA
- Power adapter: 100-240V 50/60HZ 2 Amp
- Pen size: 6.89" x 0.67" x 0.79"
- Pen weight: 1.41 oz.

## Warning

1. This equipment is suitable for children 8 years old and older. Children should only use this unit under adult supervision.
2. The nozzle is extremely hot, do not touch it.
3. Do not place any other material into the filament loading hole.
4. Do not use a power adapter from any other source.
5. Highly recommend to use filament provided by the manufacturer and any damages to the unit from using improper filaments may void the manufacturer's warranty.

## Features

- The OLED display shows information such as filament type and temperature.
- Supports both PLA and ABS filament types.  
(Note: Only ABS filaments are supplied by the manufacturer at this time)
- Lower energy consumption (maximum working temperature is 2 Amps)
- Slim, ergonomic design.
- Automatic/Manual load and unload.
- Portable - the power source can be supplied by a power bank device as well (no need for AC/DC adapter)

## Product Registration Instructions



Visit: [www.HamiltonBuhl.com](http://www.HamiltonBuhl.com)

1. Click on Customer Care
2. Click on Product Registration Icon
3. Please fill out all fields marked with \* to register

### Warranty:

Warranty begins the date item ships from our warehouse. All products have a one year warranty from original date of shipment, unless otherwise noted.



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