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1 Product Information

1.1 Instructions for Use

Please read through the following Instructions before you start using your printer.

(1) Ensure that the glass under tank is positioned flat at the corners point, for not damaging printer while printing.

(2) Ensure no residuals inside the tank and the glass is well setup before printing.

(3) Avoid print at center point with a single object or small parts repeatedly, it may damage the tank.

1.2 Regulatory Statements

FCC NOTICE

This equipment has been tested and found to comply with the limits for a class"A" digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense.

SAFETY CERTIFICATION

This equipment has been tested and compliance to safety requirement.
1.3 Safety Precautions

Please read through the following Safety Precautions before you start using your printer.

1. Use only the power adapter and accessories provided by the manufacturer.
2. Before plugging the power adapter into an electrical outlet, verify the local power rating conforms with the specified voltage and frequency.
3. This printer needs a grounded, 1-phase electrical power source.
4. Make sure power and communication cables are well managed to prevent from tripping.
5. Only use resins supplied by MiiCraft manufacturer. Use of other resins may cause printing job failure.
6. Do not expose the resin tank to direct light source because the resin will solidify under UV light.
7. Chemical substances like resin may cause skin irritation, please read the guidelines in Material Safety Data Sheet (MSDS) of the resin supplied by manufacturer. It is recommended to wear gloves when necessary.
8. When moving the printer for a long distance, be sure to withdraw the remaining resin in reaction tank and clean the tank in advance to prevent from resin overflow.
9. Keep door closed during printing or curing to prevent UV leakage.
10. UV light may cause injury of eyes, do not stare into the printer directly when it is in operation. It is recommended to wear UV protective glasses during operating the printer.
11. Place the device on a level surface and keep the printer in an upright position at all times.
12. Do not store the printer in extreme hot and cold temperatures.
13. Do not disassemble or repair the device yourself. Doing so may cause device malfunction or danger.
14. Warning: Picker is hazardous moving parts in MiiCraft Printer. Keep hands away from picker’s motion path.
16. This product is designed for specific application and needs to be installed by a qualified personal who has 3D printer and related rule knowledge. A qualified person understands the requirements and risks involved with installing electrical equipment in accordance with national codes.
1.3 General Information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Prime 150/110</th>
<th>Hyper 125/80/50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Input</td>
<td>100~240V AC, 50Hz/60Hz</td>
<td></td>
</tr>
</tbody>
</table>
| Adapter               | Hyper: 19V DC / 4.73A  
                        | 19.5V DC / 6.15A   
                        | 19.5V DC / 6.7A    |
|                       | Prime: 19.5V DC / 6.15A  
                        | 19.5V DC / 6.7A    |
| Printer Dimension W x D x H | 50 x 57 x 59 cm |
| Package Size and Weight | 80 x 80 x 93 cm / 76 kg (Including pallet) |
| Operating Temperature | 10° to 30°       |
| Humidity (RH)         | 40% to 60%       |
|                       | Our printer should keep in dry conditions |
| Storage of Printing Material | Store the materials at ambient temperature from 15° to 28°  
                        | And do not exposure to the light, otherwise resin may solidified |

• Liability: We will not hold the responsibility for damages of the machine or injuries on the operator in case user do not follow the user guide instruction.
• Repair can only be carried out by authorized person of MiiCraft.

1.4 Package Contents

There is a printer and an accessory box inside the package. As soon as you receive our products, please verify its content and check if there’s any exterior damage due to transportation.
1.6 Product Overview

Front View

USB Port *2
Network Port
Power Jack
Warning lamp Port

Touch Screen

USB Port
Power Button

Printer Door

Inside View

Handle
Picker

Resin tank
2 Setting up your 3D printer - Hardware

2.1 Unpack

(1) Remove the top cardboard
(2) Remove the EPE surround the inner box
(3) Remove the side cardboard
(4) Remove the inner box

**WARNING** Printer net weighs at least 56 kilogram. Please be careful, and use proper lifting techniques to avoid injury.

2.2 Connecting to the Power adapter and Cable

(1) Connect the power cord and adapter to your device, and then plug it into an electrical outlet
(2) Connect your printer with laptop
   - Basic : Connect printer and laptop by RJ-45 cable (Graph 1.) [Initiating time 1 minute]
   - LAN : Connect both printer and laptop to local area network [Initiating time a few seconds]
   - IP sharer : Connect both printer and laptop to IP sharer [Initiating time a few seconds]
2.3 Power Button Control

(1) Power On
   Press Power Button => Panel shows Starting up => Panel shows Menu

(2) Power Off
   Press Power Button => Confirm message => Confirm to shut down

(3) Emergency shut down
   Press Power Button and hold 3 seconds to shut down

(4) Power Button Signal

<table>
<thead>
<tr>
<th></th>
<th>Solid</th>
<th>Standby mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Blinking</td>
<td>Starting up or printing in progress</td>
</tr>
<tr>
<td>Red</td>
<td>Solid</td>
<td>Error</td>
</tr>
</tbody>
</table>

8
2.4 Install Picker

1. Carry both ends of picker and install it onto the machine.
2. Put down the handle to lock the Picker.

※ Remove the Picker: Lift the handle ➔ Carry both ends of picker ➔ Remove the Picker.

2.5 Fill resin tank

1. Unlock the resin tank from four corners.
2. Pick up the resin tank.
3. Pour resin.

※ While installing the tank, the side with sheet metal should face the printer (see the picture).
※ Remember to lock four corners of the resin tank after installation.
※ EPE must be removed before the first print.
2.6 Consuming Parts and Spare Parts related to resin tank

### Consuming Parts

<table>
<thead>
<tr>
<th>Hyper Series</th>
<th>Prime Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teflon Module</td>
<td>Teflon Film Module</td>
</tr>
</tbody>
</table>

![Teflon Module](image1.png) ![Teflon Film Module](image2.png)

### Spare Parts

<table>
<thead>
<tr>
<th>Prime Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teflon Module</td>
</tr>
<tr>
<td>Top View</td>
</tr>
</tbody>
</table>

![Teflon Module Top View](image3.png) ![Teflon Module Back View](image4.png)

2.7 How to replace Teflon film module for **Prime Series**

1. Turn back teflon module
2. Dismantle 16 units screws (As teflon module back view picture, red area)
3. Take out old Teflon film module, and put new Teflon film module
4. Mount 16 screws, but do not tighten them at once (just mount them in position temporarily)
5. Then fasten 16 screws
3 Operate your 3D printer –Software

4 After Print

4.1 Remove Model
Lift the handle→Remove the Picker and printed model→Use air gun and ethanol to clean the printed model→Post curing (Additional post curing unit is required)→Carefully remove the printed model from the picker. → Use putty knife to help separate the printed model and picker

* Do not expose the resin tank to direct light source because the resin will solidify under UV light. Use tray to cover the resin tank to prevent solidify.

4.2 Clean Picker
Use putty knife or similar object to scrape away the excess printed model on the picker. If any greasy residue persists, use a soft cloth dipped in alcohol to rub the surface until the grease is removed.

4.3 Clean Resin Tank
Pour resin out of tank→Pour ethanol into tank and soak in a while→Use tissue or lens tissue softly wipe the bottom of tank→Finished cleaning. Or let the projector help cleaning Tank, please refer to Utility user manual, the cleaning Tank Process.

Notifications:
- Do not shut down the power during curing
- Do not interrupt the firmware upgrade process. Any interruptions during the firmware upgrade process may cause your printer to malfunction
- Update the firmware frequently for better user experience
- Before printing, please check the surface of picker and tank is clean, no residual, otherwise it may affect printing quality
- Hyper series Tank module and Prime series Teflon film module are consumables, we suggest to replace for them while using for a period, otherwise it may affect printing quality
# Appendix 1. Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Prime 150</th>
<th>Prime 110</th>
<th>Hyper 125</th>
<th>Hyper 80</th>
<th>Hyper 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area (mm)</td>
<td>150x84.5x120</td>
<td>110x62x120</td>
<td>125x70x120</td>
<td>80x45x120</td>
<td>57x32x120</td>
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<tr>
<td>XY Res.</td>
<td>55 µm</td>
<td>40 µm</td>
<td>65 µm</td>
<td>41.5 µm</td>
<td>30 µm</td>
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<tr>
<td>Z-Layer Resolution</td>
<td>5 µm to 500 µm</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Wavelength (LED)</td>
<td>385/405 nm wavelength are available for all configurations</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UI &amp; Connectivity</td>
<td>Touch screen / Ethernet, USB</td>
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</tr>
<tr>
<td>Software</td>
<td>Operating System: Windows7, Windows8, Windows10</td>
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<tr>
<td></td>
<td>Network Browser: Google Chrome</td>
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<tr>
<td></td>
<td>File input: .SLC, .STL</td>
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<tr>
<td></td>
<td>File input size limitation:</td>
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<tr>
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<td>(1) Upload file from Computer, file limitation 500MB</td>
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<tr>
<td></td>
<td>(2) Upload file from USB, file limitation 1G</td>
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<tr>
<td>Power Input</td>
<td>100 ~ 240V AC, 50Hz/60Hz</td>
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<tr>
<td>Adapter</td>
<td>Hyper:</td>
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<tr>
<td></td>
<td>19V DC / 4.73A</td>
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<tr>
<td></td>
<td>19.5V DC / 6.15A</td>
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<td>19.5V DC / 6.7A</td>
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<tr>
<td></td>
<td>Prime:</td>
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</tr>
<tr>
<td></td>
<td>19.5V DC / 6.15A</td>
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</tr>
<tr>
<td></td>
<td>19.5V DC / 6.7A</td>
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<tr>
<td>Operating Environment</td>
<td>Temperature: 10° to 30°</td>
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<tr>
<td></td>
<td>Humidity (RH): 40% to 60%</td>
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<tr>
<td>Printer dimension</td>
<td>50 x 57 x 59 cm / 56 kilogram</td>
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<tr>
<td>Package size and weight</td>
<td>80 x 80 x 93 cm / 76 kilogram</td>
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</tbody>
</table>

* All specification and design subject to change without notice