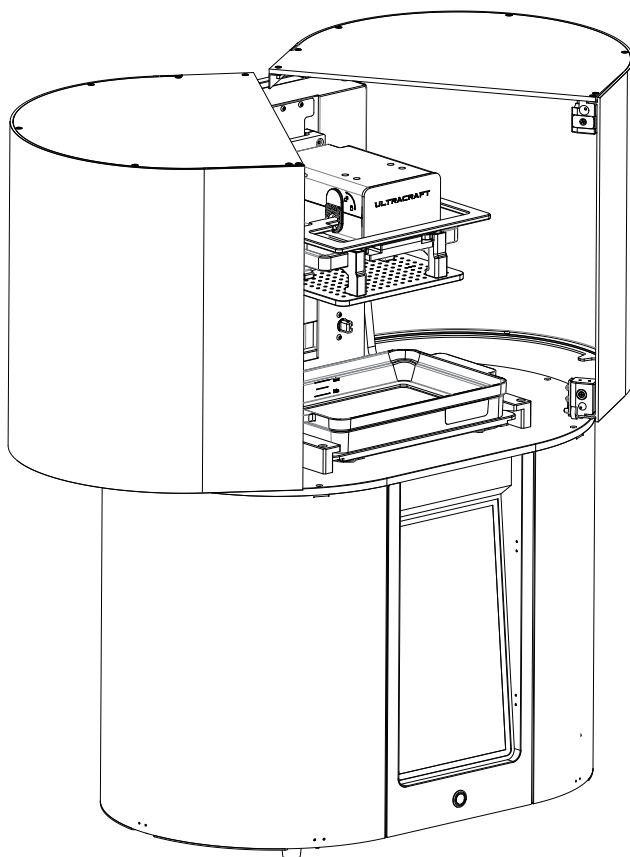




ULTRACRAFT ChairSide **Pro**

Industrial Desktop 3D Printer for Dental Applications



Quick Start V1.0

⚠ Top Performance, High Speed Manufacturing

Thank you for choosing HeyGears. For your safety, [please follow the operating instructions](#). If you fail to comply with the instructions in this manual, HeyGears will not responsible for the consequential losses unless required by law.

Please keep this operation manual properly for future reference. The pictures are for reference only and the products are subject to the actual product.

⚠ This equipment is not suitable for use in locations where children are likely to be present.

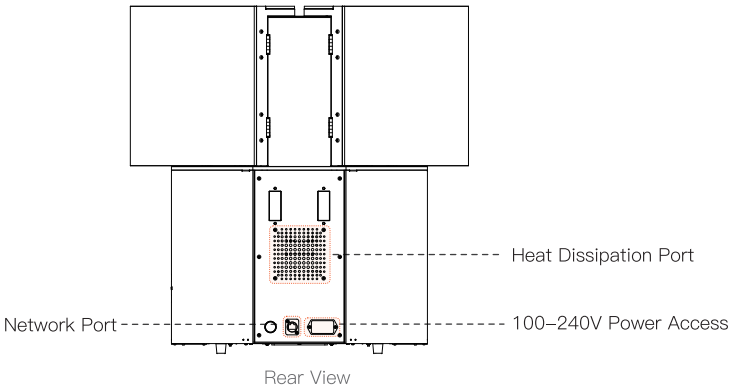
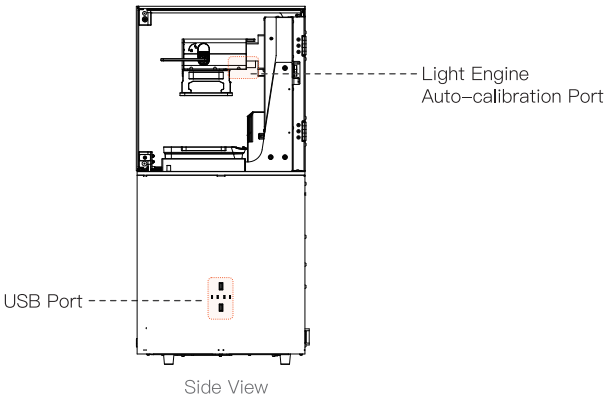
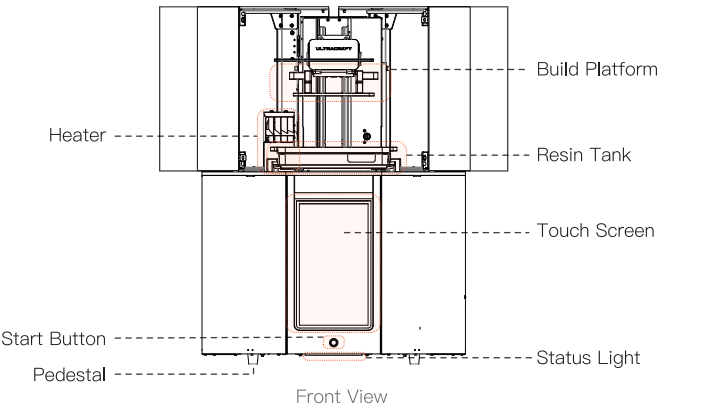
1 Items & Parameters

Items
The First Layer: Power Code、Network Cable、Accessories Cleaning Tray、Lint-free Wiper、Automatic Uniformity Calibration Module、Backlight Film
The Second Layer: Finish Kit（Disposable lens cleaning wipes & resin wiper, gloves, glass cleaner, blade, cutter.） 、Resin Tank&Lid、Build Platform
The Third Layer: ChairSide Pro 3D Printer

Parameter	
Size	556*363*754 mm
Input	100–240 V~ 50/60 Hz
Power	530 W
Weight	41kg

*The details shall be subject to the actual shipment list.

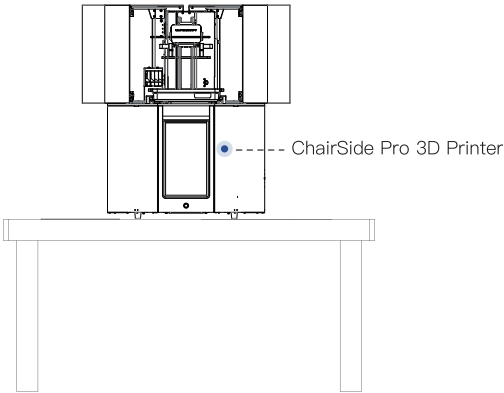
2 Overall



3 Set up

3.1 Unpacking

ChairSide Pro needs to be placed on a sturdy and flat table (load capacity of more than 55Kg) after taking out from the package.

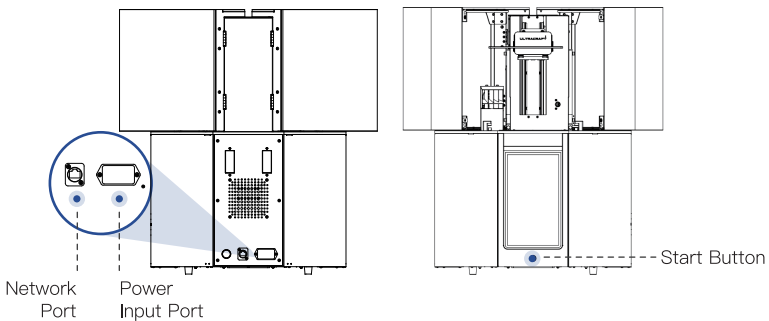


Storage Environment: 0–60°C, Humidity10%–85%
Working Environment: 20–25°C, Humidity<50%

3.2 Start

3.2.1 Please connect to power and network.

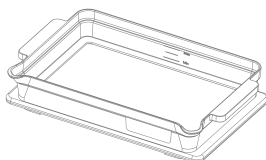
3.2.2 Switch on the Power Input Port at the bottom of backside and press the start button on the front to boot up it. After that, the build platform mounting mechanism will be automatically reset to its initial state.



3 Set up

3.3 Accessories Installation

Put on disposable protective gloves, remove the foam and lint-free wiper. Take out the resin tank from the packing box and install it into ChairSide Pro.



3.4 Light Engine Calibration

Refer to **【Chapter 6 Daily Maintenance】** .

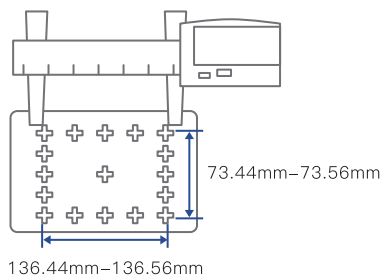
3.5 Print Test

Step 1: Please refer to **【Chapter 4 Printing】** to finish the printing preparation.

Step 2: In operating system, enter **【Model Library】** > select the test file **【Standard Test Model】** > click **【Start Printing】** .

Step 3: Place the build platform on a flat table after printing, and use dust-free cloth to wipe off the resin adhering to the surface of the cross gently, and the inside dimension of the cross is measured with vernier calipers as shown in the figure below. If the measurement data is within the range shown in the figure, then the initial installation and debugging are finished.

Note: Do not measure the cross with the caliper attached to its bottom, do not touch the bottom of the cross, and pay attention that the caliper and the measured dimension direction are horizontal during testing.



4 Start printing



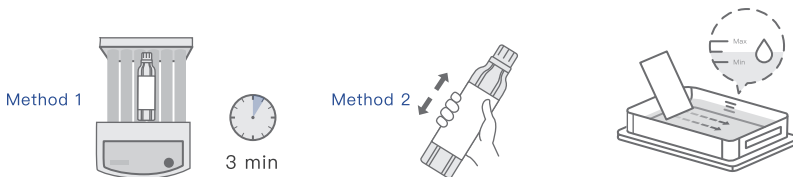
CAUTION UV emitted from this product. Eye or skin irritation may result from exposure.

Use appropriate shielding.

4.1 :

•Prepare Material & Resin Tank

Please shake the material bottle for 3min using a mixer. You can also choose to manually shake it up and down for 3min. After the resin is well shaken, pour it into the resin tank (The liquid level should be between Min and Max mark line) and carefully stir the resin with scraper paper inside the package to make sure there is no flocculent material at the bottom of the tank.



•Prepare Build Platform

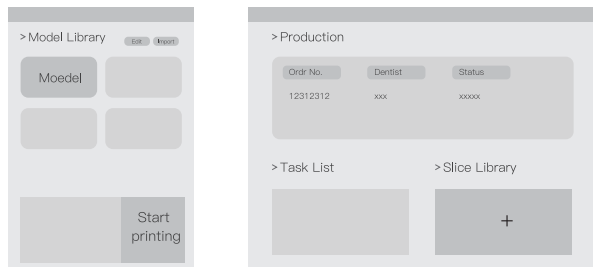
Ensure the build platform is clean, then install it into the ChairSide Pro.



4.2 :

•Start Printing

Local printing: Insert a USB with print files into the port on the side of the machine. >Enter **【Model Library】** > Click **【Import】** to import the file to be printed > In **【Model Library】** , select the file to be printed and click **【Start printing】** .



Remote Printing : Login HeyGears Cloud (<https://user-clinic.heygears.cloud/>) with computer browser > Enter **【Print Production】** > Click **【+】** in **【Slice Library】** to add new print tasks > Drag and drop them to the print task list > Complete the print task distribution.

*Please contact HeyGears sales to purchase sales@heygears.com

5 Post-processing

 Caution: For your safety, please wear gloves to finish the post-processing operation.



5.1 Prepare



Gloves



Lint-free Wiper



Blade



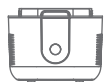
Cutter



Brush



Ultrasonic Cleaner



AirCure/PCU



Water

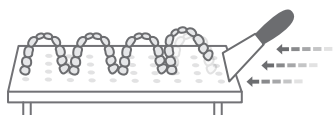


Isopropyl/Ethyl Alcohol

5.2 Parts Removal

 Caution: Please be careful when using blade.

Remove the build platform and place it upside down on a lint-free cloth. Lightly peel off the print with blade along a corner of the print edge with continuous force until it is completely removed.



5 Post-processing

5.3 Wash

•1st –Rough Wash

Put some water and beaker in the ultrasonic cleaner, then place the part into the beaker with appropriate amount of detergent to submerge it (Detergent refer to the application SOP provided by HeyGears Technical Support). Set the rough wash time (Refer to the application SOP provided by HeyGears Technical Support) and start washing. When finished, remove the parts and blow away any residual detergent and resin on its surface with compressed air.

•2nd –Fine Wash

Place the print in another clean beaker after rough washing and pour in new cleaning solvent, then put them into the ultrasonic cleaner for fine washing with specific time (Refer to the application SOP provided by HeyGears Technical Support) . Remove the print when washing finished and use compressed air to blow away the residual detergent on the surface of the print to complete the washing process.



5.4 Cure

1. Put water into the AirCure breaker (note: some need to put glycerin), and put model in.
2. Close the AirCure lid.
3. Press the knob lightly to start the curing operation according to the display prompt.
4. Remove the model after curing and blow dry.



5.5 Remove Support

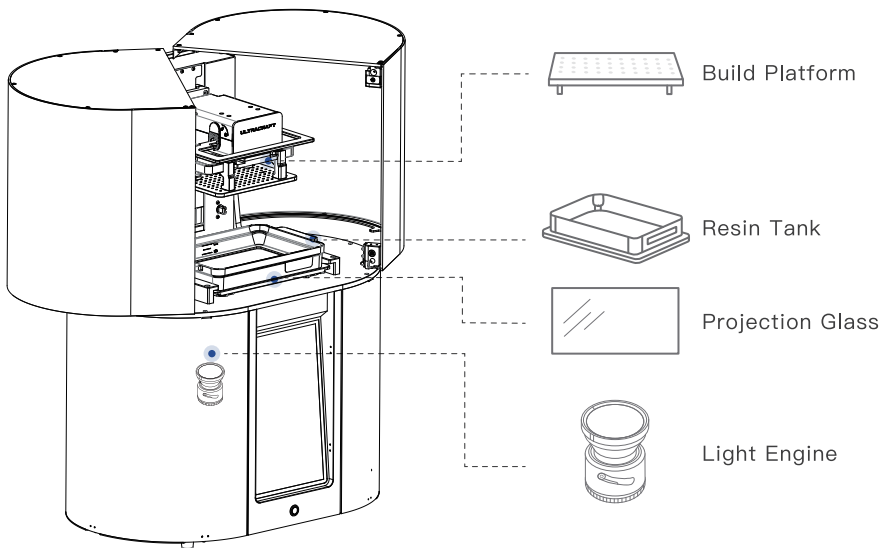
Using the cutters in the Finish Kit, carefully remove excess support and burrs from the print to complete the post-processing.



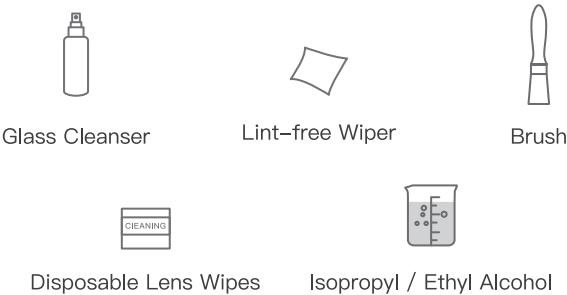
6 Maintenance

 Caution: Please operate carefully to avoid damage to optic components.

Schematic Diagram:



6.1 Prepare



6 Maintenance

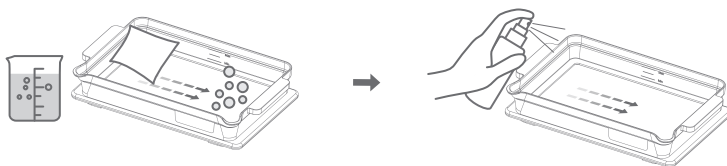
6.2 Build Platform Maintenance

Remove the build platform from the ChairSide Pro and carefully invert it onto the cleaning tray. Using brush with isopropyl/alcohol to clean the resin residue on the build platform, then place it in a ventilated area to dry.



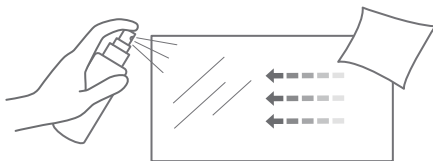
6.3 Resin Tank Maintenance

Remove the resin tank from ChairSide Pro and place a cleaning tray underneath the resin tank. Use a lint-free wipe and alcohol to clean out residual resin in the tank. Afterwards, spray the glass cleaner on both sides of the glass and wipe it in the same direction, then place it at a ventilated place to dry.



6.4 Projection Glass Maintenance

Remove the projection glass from ChairSide Pro. Spray the glass cleaner on both of the glass. Wipe the glass in the same direction. Simply place the glass at a ventilated place to dry.



6 Maintenance

6.5 Light Engine Care

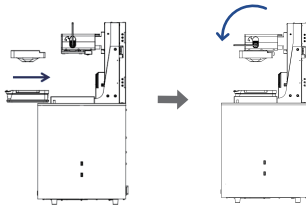
Use a disposable lens wipe to wipe the lens clockwise.
DO NOT CLEAN LENS WITH GLASS CLEANER!



6.5 Light Engine Calibration

Caution: Please close the cabinet door before calibration.

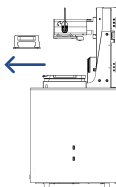
Step 1: Open the door and insert the auto-calibration module into the build platform mounting mechanism, then pull down the handle and install the resin tank.



Step 2: Place the backlight film in the center of a clean tray and close the cabinet door. Then operate in software system as flowing: **【Settings】** > **【Advanced Settings】** > Enter password: 666666 > Click **【Light Engine Auto-calibration】** , following the wizard animation to complete the calibration.



Step 3: Open the cabinet door, remove the auto-calibration module and take off the backlight film (disposables, need to discard after using) on the resin tank.



7 FCC Compliance Information Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

 Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 NOTE: 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 when the equipment is operated in a commercial environment. 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 his own expense.

Class A: A device which is marketed for use in an industrial application and is not intended for use in the home or residential area.

US Local Responsible Party: HEYGEARS INC

 Phone number: +1 949-418-9418

 Address: 17931 Sky Park Circle, Suite E, Irvine, CA, 92614

8 Built-in Battery Explanation

- AUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- Do not ingest battery, Chemical Burn Hazard, This product contains a button cell battery. If the button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- The product shall connection of the equipment protective earthing conductor to the installation protective earthing conductor (for example, by means of a power cord connected to a socket-outlet with earthing connection).
- When the plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.
- This equipment is not suitable for use in locations where children are likely to be present.



Join the Conversation: HeyGears

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