SV06 ACE

User Manual

V1.0



Dear customers:

Thank you for choosing Sovol printers! Sovol is committed to providing excellent machines to 3D printing enthusiasts all over the world . This manual is designed for SV06 owners to start their SV06 ACE printing journey. We still recommend all the SV06 ACE owners to read the manual carefully even if you are familiar with the 3D Printing technology, as there are lots of important information about the SV06 ACE for you to learn and help you get better printing exprience . In this manual there are some tutorials can be found on official website and group you can scan the QR-codes.







sovol official website

Catalogue

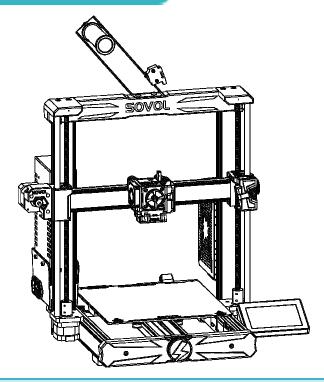
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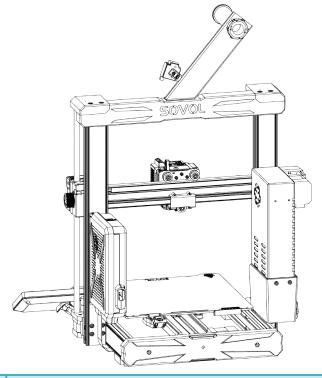
Note



- Do not use the printer any way other than described here in order to avoid personal injury or property damage.
- Do not place the printer in the environment with large vibration or other instability.
 The shaking of the machine will affect the printing quality of the printer.
- Please do not place the machine in inflammable and explosive materials or near high heat source.
- Please place the machine in a ventilated, cool and dust free environment.
- It is recommended to use the material recommended by the manufacturer to avoid machine damage.
- Do not use any other power cable except the one supplied. Always use a grounded three-prong power outlet.
- Please do not open the plastic cover during usage, otherwise the printing will be interrupted.
- Do not wear cotton gloves when operating the printer. Such cloths may become tangled in the printers moving parts leading to burns, possible bodily injury, or printer damage.
- Please wait a moment to remove the print after the print is finished.
- It's not recommended to use the third party firmware or mainboard etc, or the warranty will be void.
- Clean the printer frequently. Always turn the power off when cleaning, and wipe with a dry cloth to remove dust, adhered printing plastics or any other material off the frame, guide rails, or wheels. Use glass cleaner or isopropyl alcohol to clean the print surface.
- Children under 10 years should not use the printer without supervision.
- This machine is equipped with a security protection mechanism. Do not manually move the nozzle and printing platform mechanism manually while booting up, ot herwise the device will automatically power off for safety.
- Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used), abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes. Sovol will not be responsible for any violators' legal liability under any circustance.

Equipment Parameters

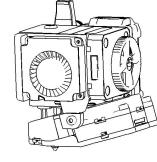


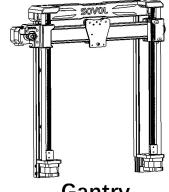


Model	SV06 ACE		
Software language	English		
Print method	Network interface USB cord and WIFI		
Туре	FDM		
Number of nozzles	1		
Print size	220*220*250mm		
Recommend Printing speed	200-300mm/s		
Printing accuracy	±0.1mm		
Nozzle diameter	0.4mm (Replaceable)		
Nozzle temperature	≤300℃		
Hot bed temperature	≤100℃		
Applicable filament	PLA/ABS/PETG/TPU/WOOD		
Diameter of filament	1.75mm		
File format supported	G-code		
Voltage	AC 100~120V / 200~240V, 50/60Hz,		
Operation system	Windows,Linux,Mac		
Power supply	360W/24V		

Package List



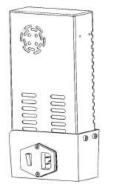




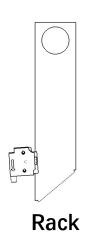
Base kit

Extruder kit

Gantry







Power box

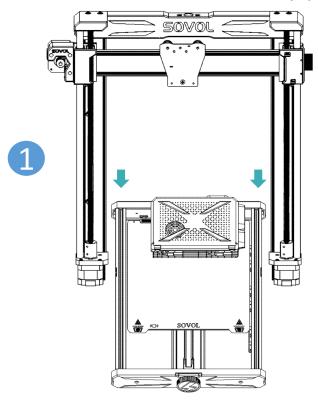
Disaplay



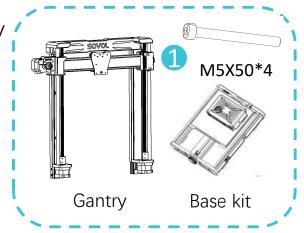
Mian frame installation

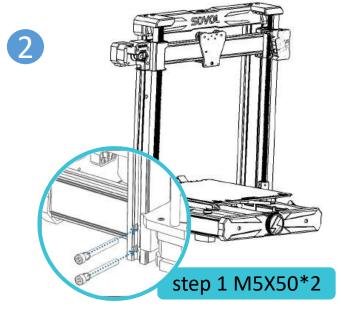
Assembly

1 First, remove the gantry frame gantry assembly and base kit from the packaging box, as well as the M5*50 screw from the accessory pack.



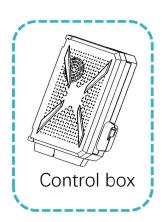
Position the gantry assembly directly in front of the chest, and insert the gantry into the groove in the base assembly.

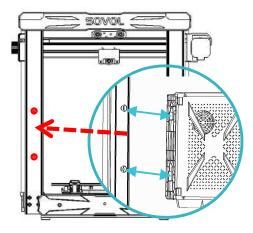




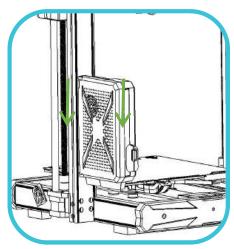
Tighten the screws on both sides to complete the installation.

2 As shown, pick up the control box and assemble it.





Insert the side of the control box into the T-buckle on the back of the Z-axis profile.

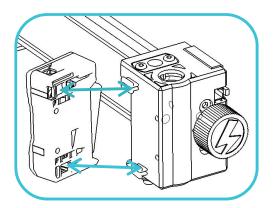


After aligning the T-buckle, firmly press down as shown to complete the control box assembly.

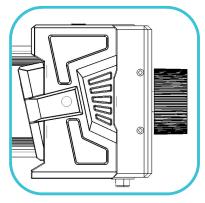
Nozzle and camera installation

Assembly

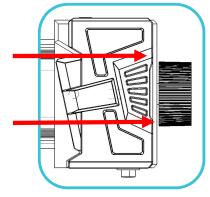
1 Install the camera module.



Remove the camera module and align the notch with the step on the X-axis securing bracket.

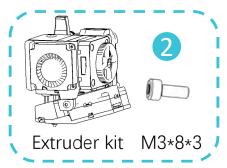


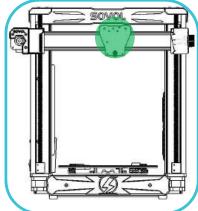
Align the camera module with the X-axis bracket.



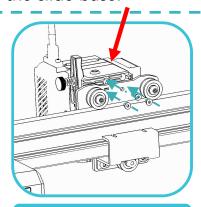
Buckle in from left to right and push to the top to complete the installation of the camera module.

2 Attach the extruder kit to the slide base using the three M3X8 screws and tighten them.

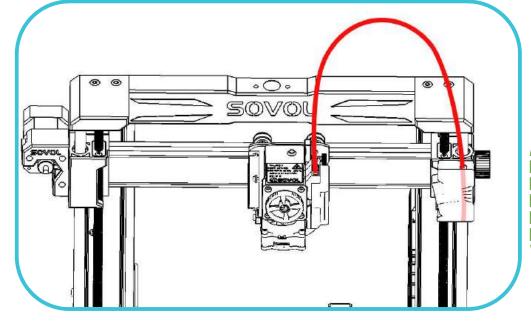




Align the nozzle kit with the three pre-drilled holes on the X-axis slide base then lock it with M3x8 screws from the rear of the slide base.



step 2 M3X8*3



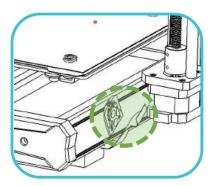


When installing the nozzles, make sure to check if the harness rotates.

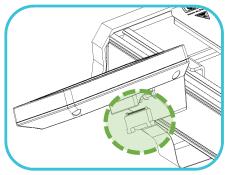
Assembly

Remove the touchscreen from the package and locate the machine's right side. Attach it to the bracket and slide it down to lock it into groove.

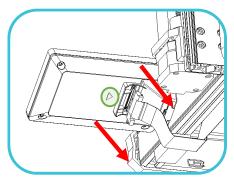




Locate the right profile with the cables.



The cable is connected to the touch screen interface beneath the profile.



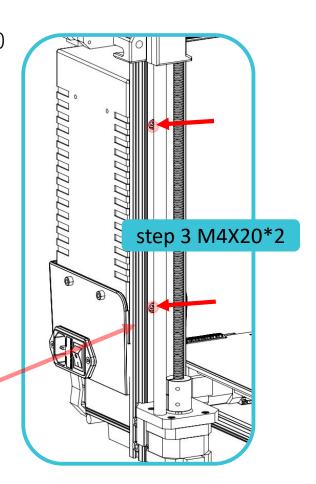
Then press the touchscreen down along the groove to secure it in the groove.



- 1. The golden side of the screen cable needs to be installed towards the ">"sides."
- 2. When disassembling the screen, you need to press the buckles on both sides to take out the cables.
- Install the power supply to the left profile of the gantry with two M4X20 screws and tighten them.

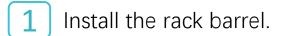


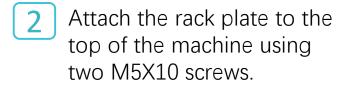
Align the mounting holes on the power supply box with those on the back of the left profile, and secure it in place by tightening the screws.

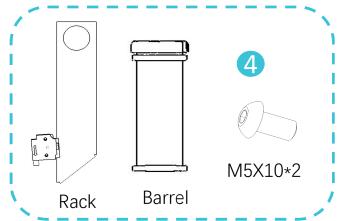


Assembly

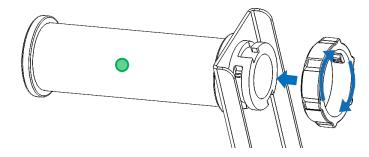
Feeder rack installation

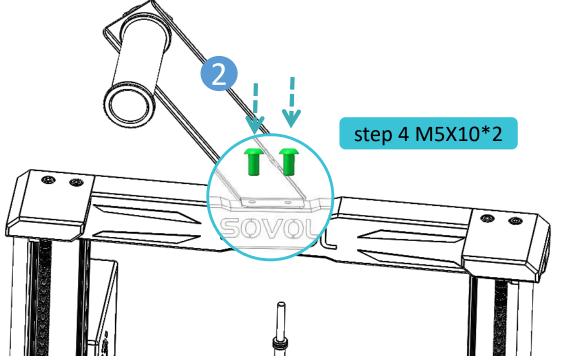






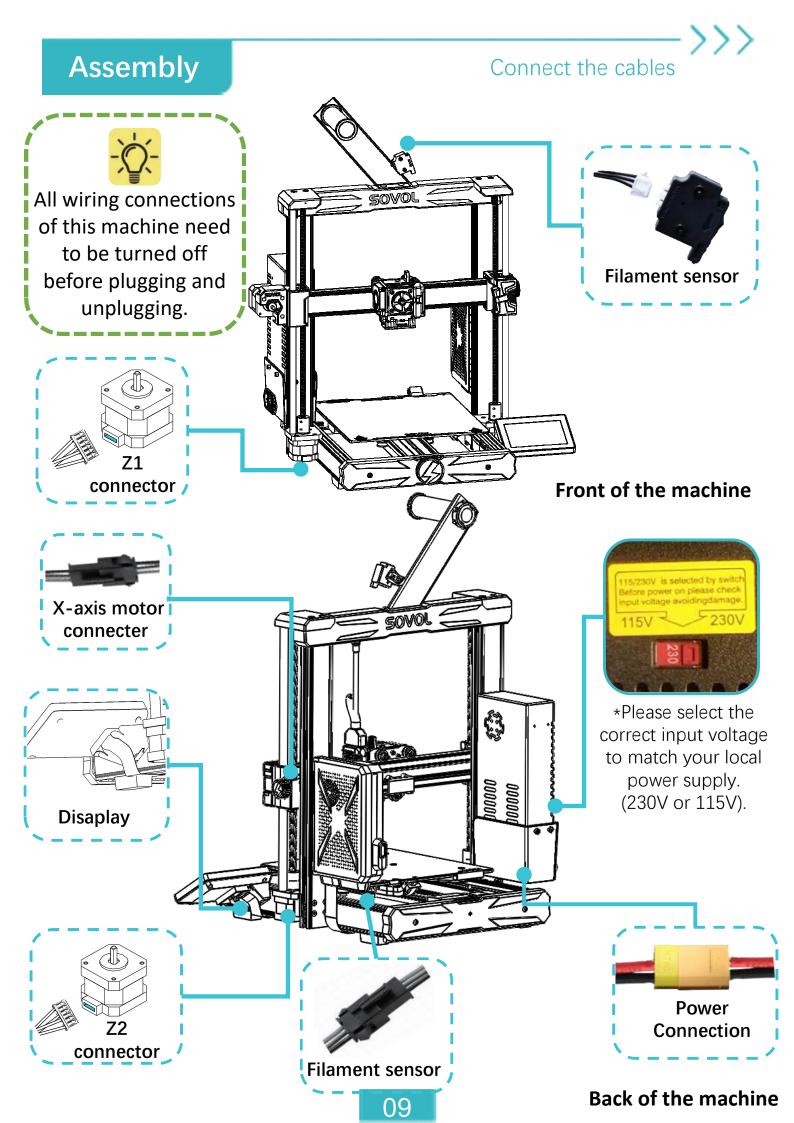
(This part of the rack) Facing the front of the machine.



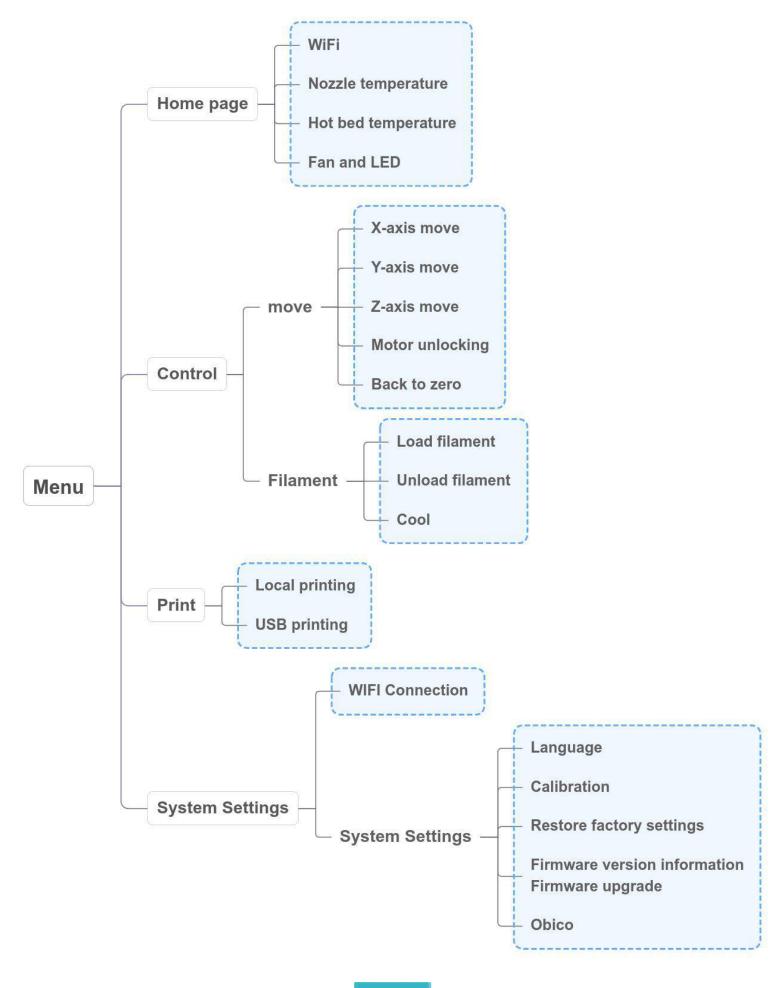




*The picture shows the back of the machine, When the back of the machine is facing you, the rack faces to the left.



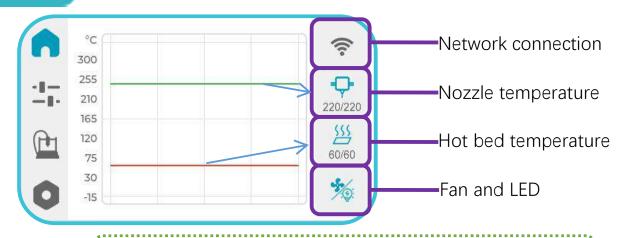
Function List



Touchscreen



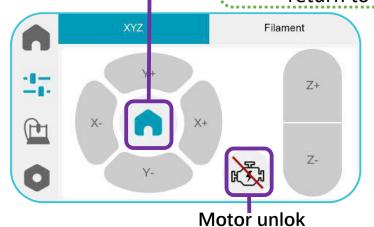




Back to zero



If an error occurs during the return to zero, release the filament 2 turns before starting the return to zero.







fn_PLA_0.2_3m58; Sovol SV06_ps_PL







Start-up

After the entire installation process is completed, plug in the power cord and toggle the power switch on the left side of the machine. The printer's display will light up, indicating that it has entered the booting guidance phase. Follow the steps below for operation.



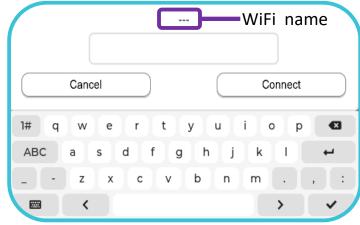
Tap"start"



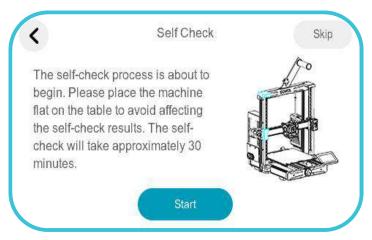
Language Selection (8 languages available)



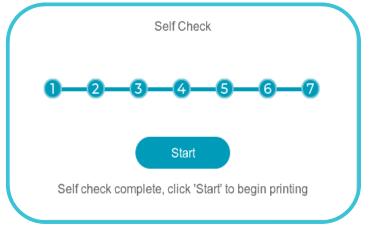
Connect to WiFi Select your home WiFi network.



Enter the password and connect to the WiFi network.



Power on calibration



StartCalibration complete click start to print.

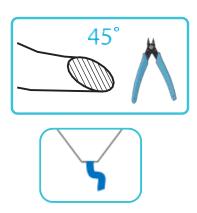
Fill Filament

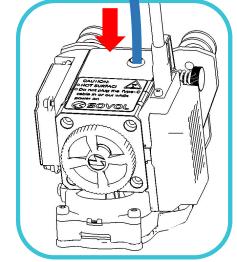
>>>

After completing the boot guide, please load the filaments before starting printing.

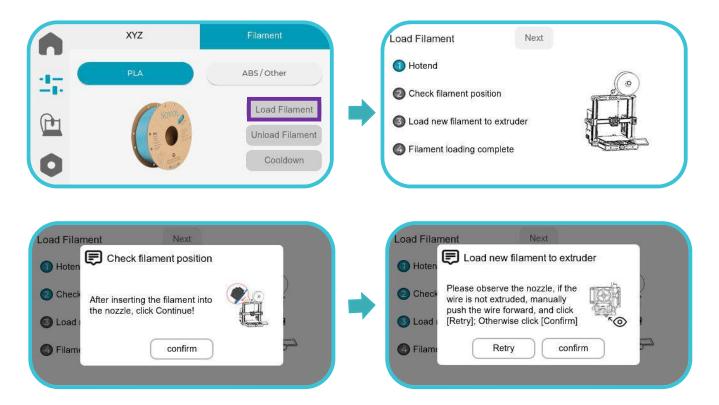
Cut the filament tip at a 45° bevel angle and insert it into the feeder,

pushing it up to the gear.





Click on Filament on the main interface → Select PLA → Load Filament. The extruder will automatically rotate to feed the material in. Observe the material flowing out of the nozzle bottom to confirm the loading of the material.

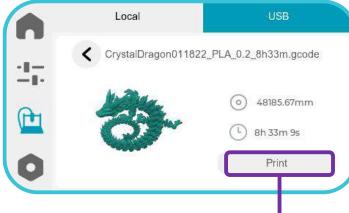


To replace the filament, click "Unload Filament." Once the filament is unloaded, remove it and refill it by following the steps above.

Print the file

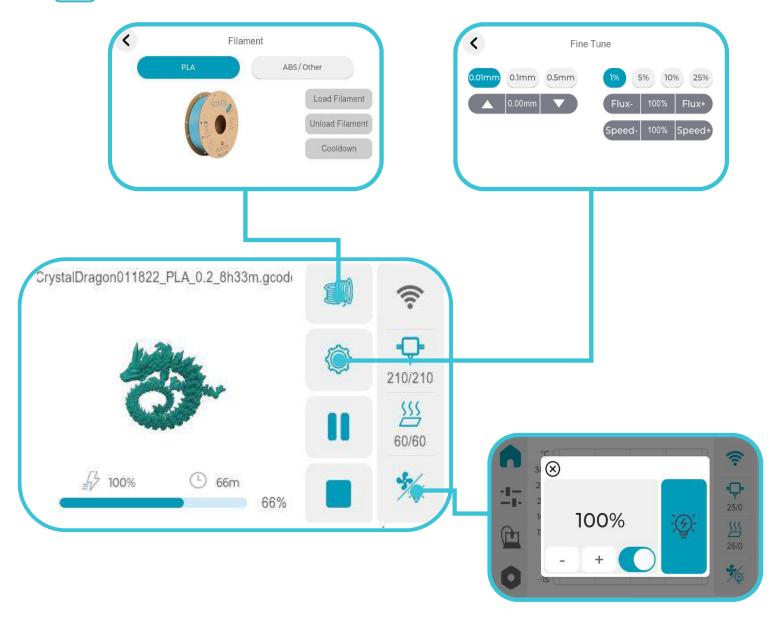
Plug in the USB and wait for the display to load the print content, and then follow the steps below to print.





Click Print

2 Select the file you want to print.



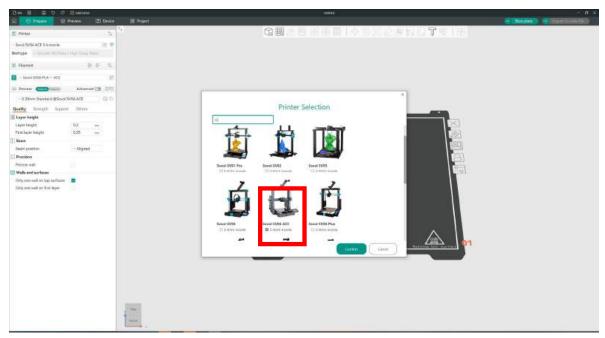
OrcaSlicer



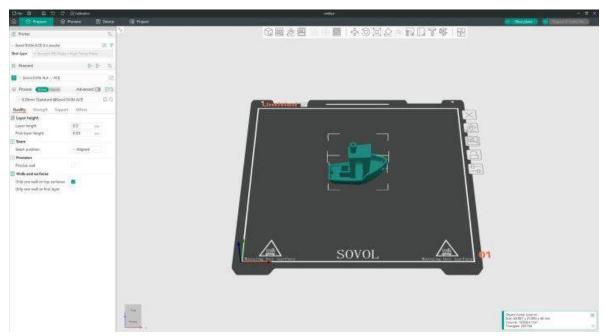


OrcaSlicer_2.1.1_x64_.exe

1 Double-click and install the file "OrcaSlicer" on the USB flash drive.



2 Select add SV06 ACE and the parameters are already set in the system.



3 Select and add the model you want to print.

Obico

Obico Download

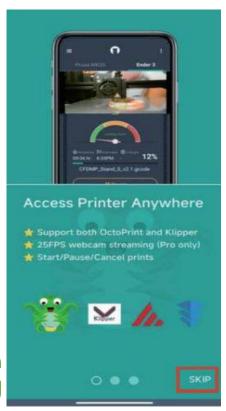
- a. For Android users: visit the Google Play store, search. for "Obico" and select install app.
- b. For iOS users: Visit the Apple APP Store, search for "Obico", and then select Install APP.
- c. Via Web interface: If you want to access via Web interface.

https://obico.io

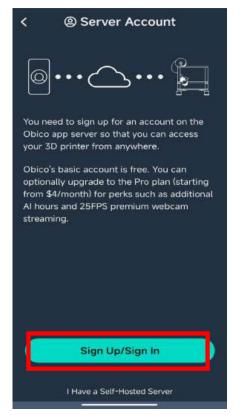
- 1. Start the Obico operating interface of the printer and follow the steps below.
- 2. Connect the Obico software on your phone.
 Open Obico downloaded from the above website.



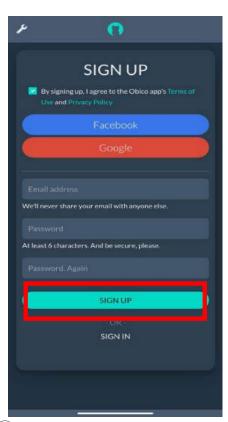
Follow the red insruction box to do the following.



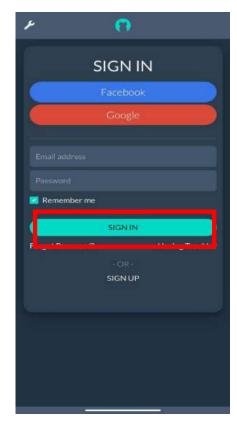
1.Click on 'SKIP'



②.Click on 'Sign Up/Sign in'



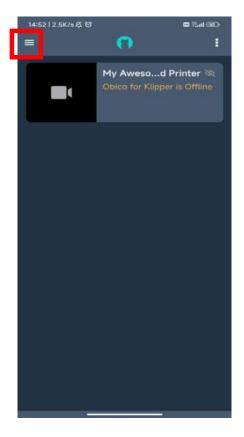
(3).Register an account, enter the information, and click on 'SIGN UP'

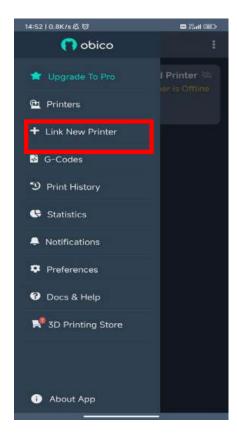


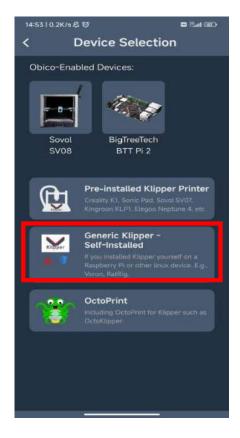
4.Enter the account information and click on 'SIGN IN'

Obico









(5).Click the main menu

6.Click the 'Link New Printer'

7.Click the 'Generic Kilper-Self-Installed'

Link Manually

What are you using to link

LCD Screen

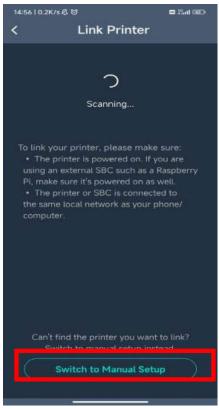
KIAUH or "install.sh"

m 25.44 0000

14:56 | 0.3K/s Ø 🗑

Obico?





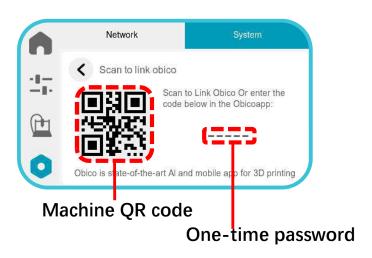
More Info About These Options

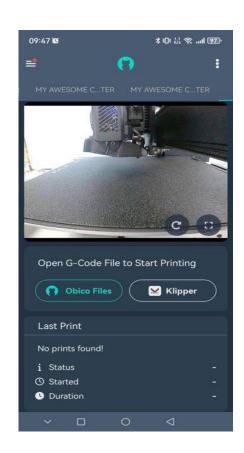
Self-Installed'

8.Click the 'Generic Kilper- 9.Switch to Manual Serup

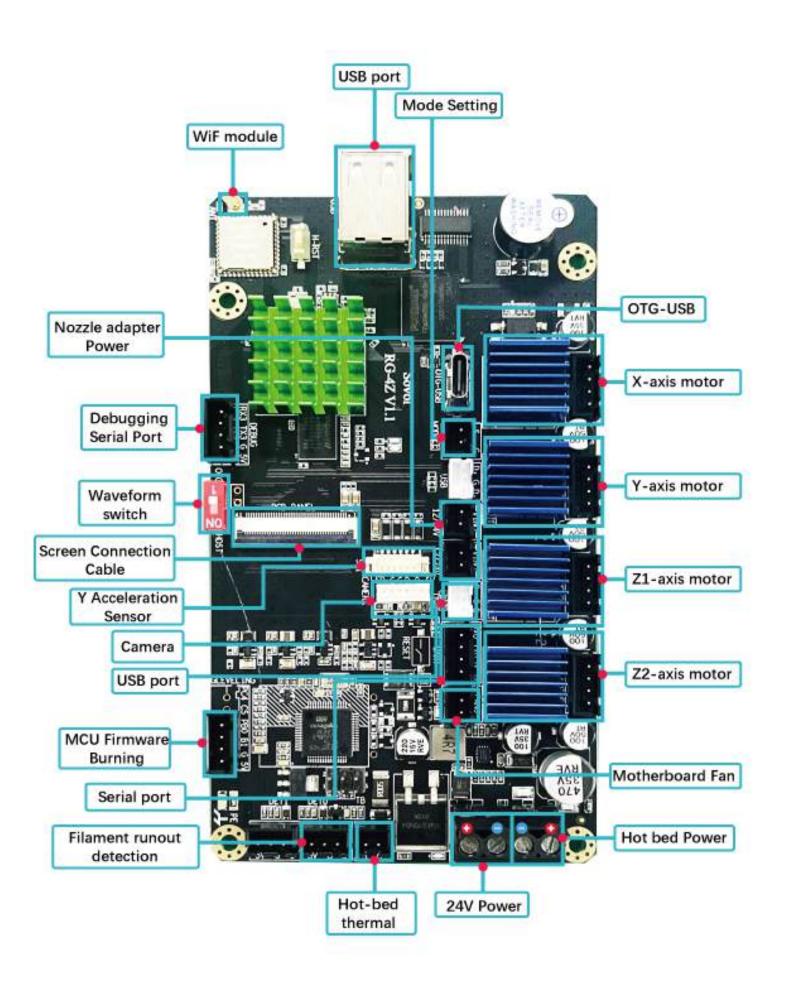
10.Click the 'Obico menu on the touch sereen'

Obico

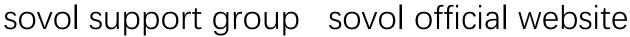




After scanning the QR code on the screen, you will see what's on the right, indicating that your machine is now connected to obico. Proceed to operate according to your needs and embark on your 3D printing journey.









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