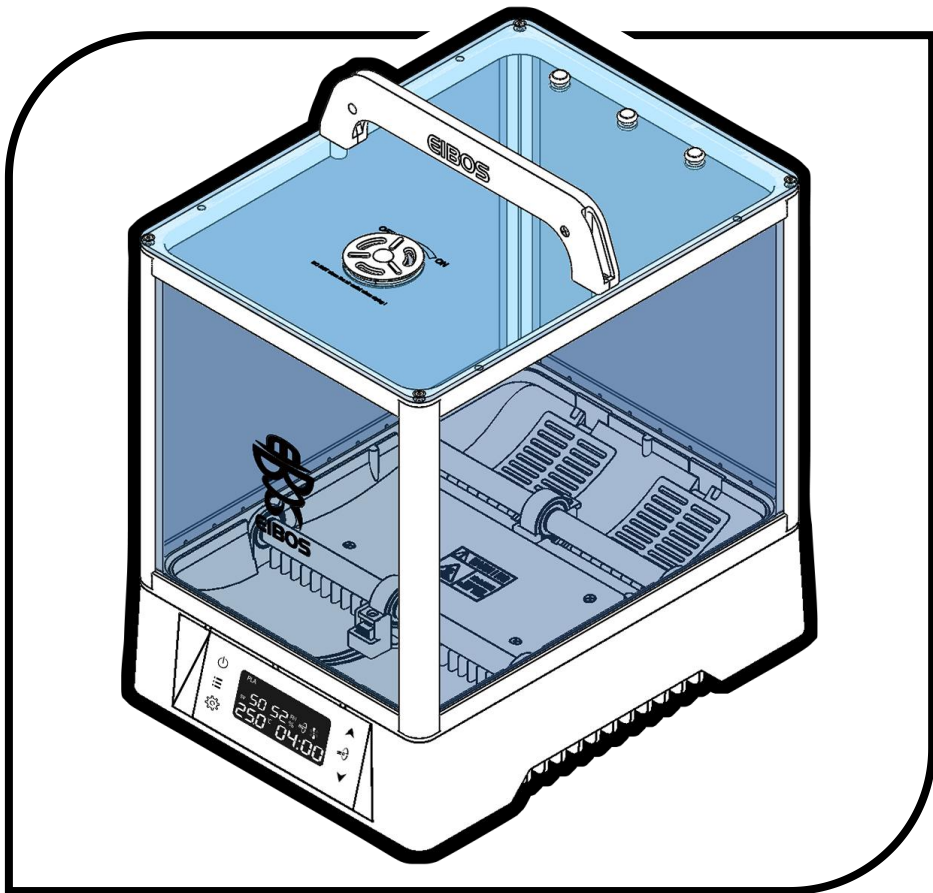




3D PRINTING FILAMENT DRYER

POLYPHEMUS



PRODUCT MANUAL



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This language version of the manual is verified by the manufacturer (Original Instruction).

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BEFORE USING

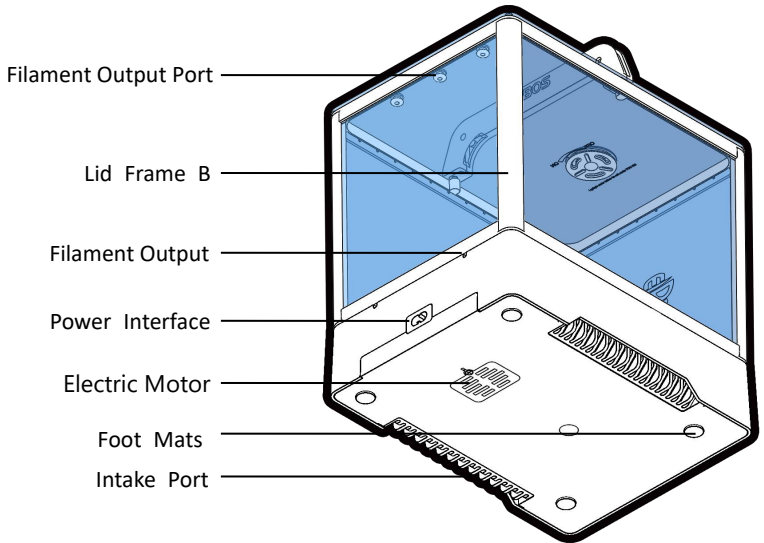
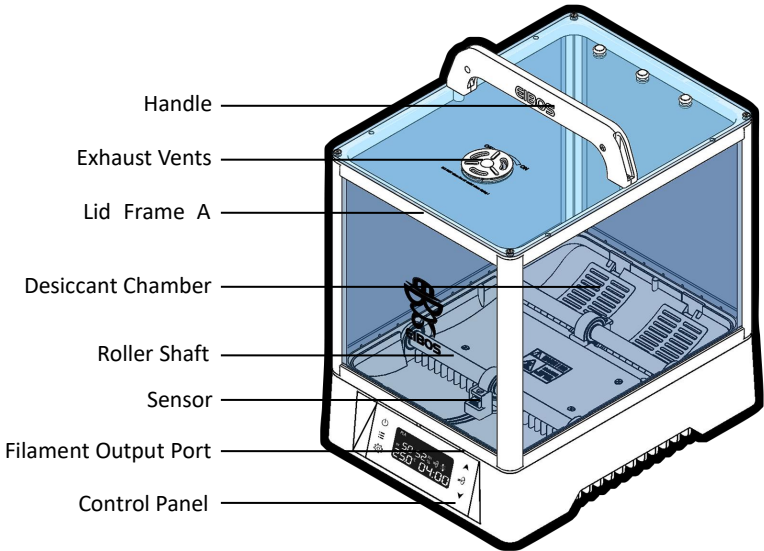
- Please refrain from inserting the power cord into the socket when the product is not in use.
- Take caution and avoid touching the heating vent to prevent burns.
- Do not insert any objects into the heating vent to avoid the risk of electric shock.
- For safety reasons, it is recommended to turn off the power supply when the product is unattended to prevent accidental fires.
- In the event of a product malfunction, kindly switch off the power and contact EIBOS or the authorized distributor. Do not attempt to repair it yourself.
- Please note that the pictures and instructions in this user manual may differ from the actual product.
- EIBOS shall not be held responsible for any direct or indirect damages resulting from product operation, modification, or accidents caused by user negligence.



PRODUCT PARAMETER

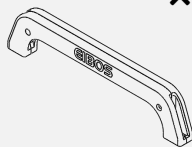
Input	<input type="checkbox"/> US : AC120V 60Hz
	<input type="checkbox"/> EU / UK / AU : AC 230V 50Hz
Rated Power	130W
Package Size	330x250x160mm
Product Size	275x205x317mm
Net Weight	2.2kg
Total Weight	2.9kg
Humidity Range	RH10%~99%
Temperature Range	30~70°C (Based on 25°C environment temperature)
Filament Size	φ1.75mm
Lifespan of Motor	1500h (The motor is replaceable)
Max Spool Size	Double Spools φ210 × 80mm
	Single Spool φ210 × 170mm
	By utilizing expansion parts, the capacity of the device can be increased to accommodate dimensions of up to φ250mm x 170mm.

PRODUCT OVERVIEW



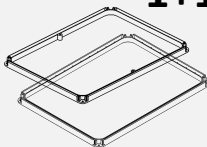
4

PARTS LIST



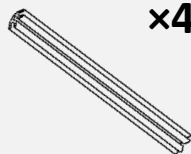
x1

Handle



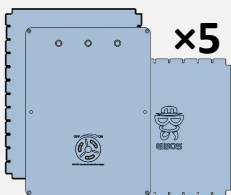
1+1

Lid Frame A



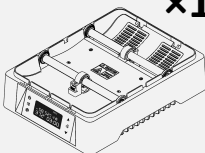
x4

Lid Frame B



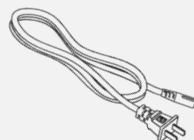
x5

Acrylic Panels



x1

Main Device



x1

Power Cord



x10

Screws
M2.5 H10



x1

Allen Wrench



x1

Teflon Tube



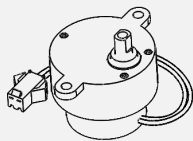
x3

Silicone Stopper

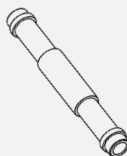
Spare parts



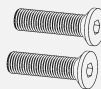
O-Rings



Motor



Roller



Screws

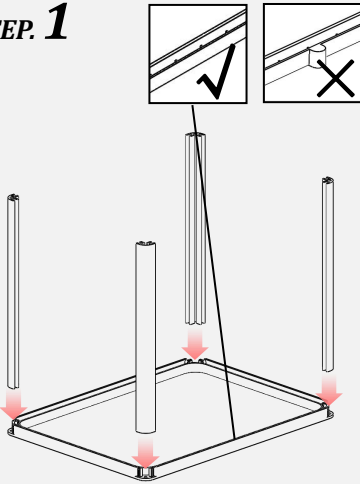


Silicone Stopper

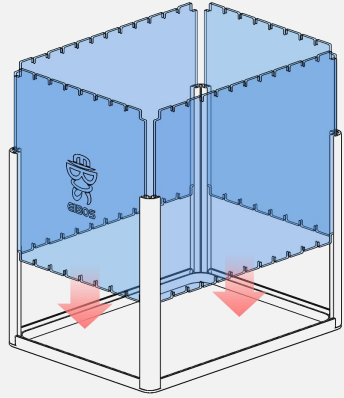
*Some parts in the accessory package are spare parts and not necessary for installation. The quantity of spare parts may vary, but it doesn't affect installation or usage.

ACCESSORIES INSTALLATION

STEP. 1

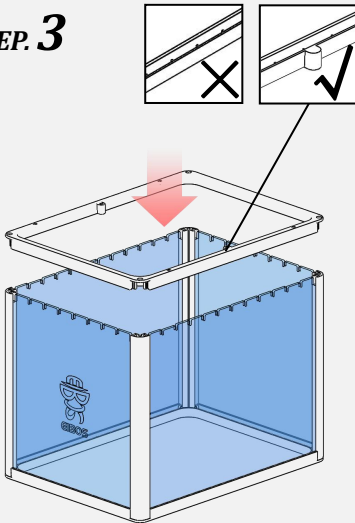


STEP. 2

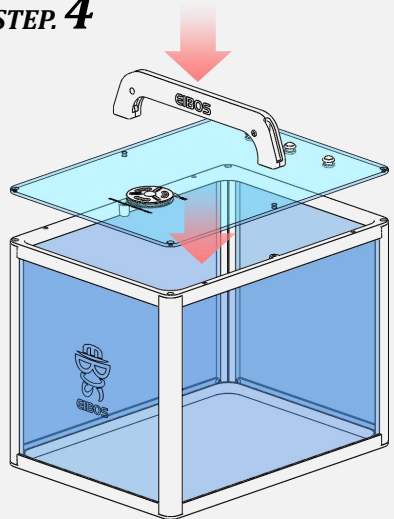


* Please remove the protective film from an acrylic panels before installation.

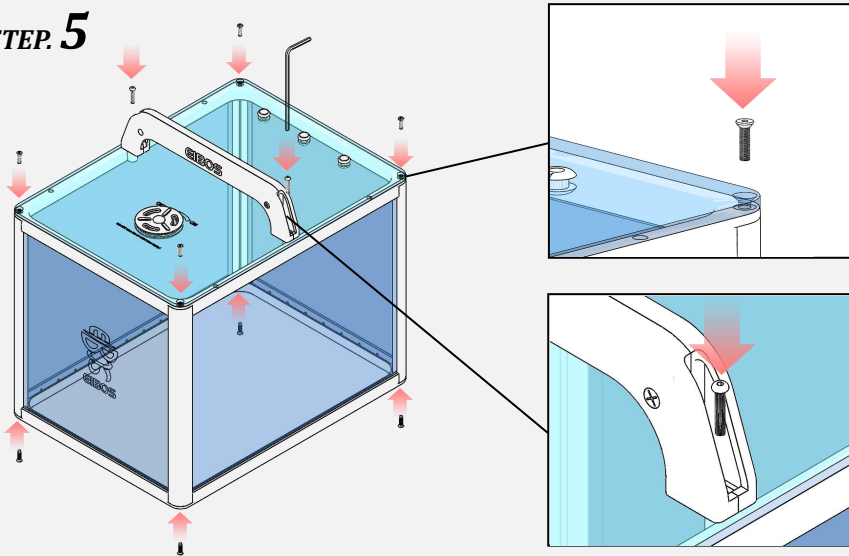
STEP. 3



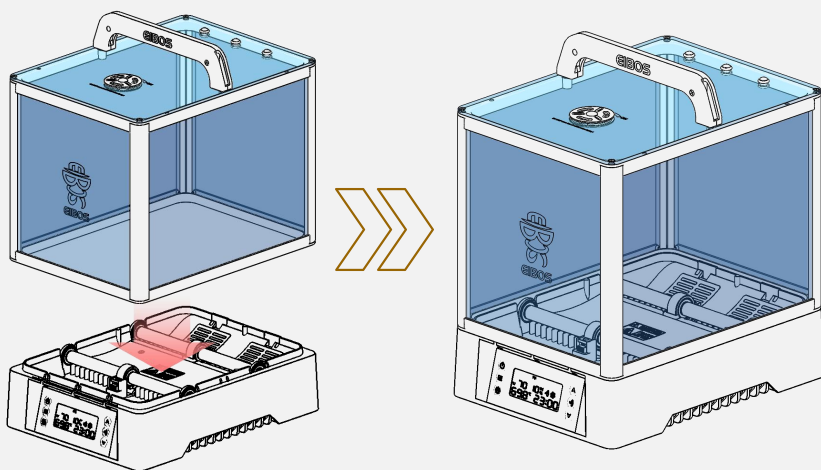
STEP. 4



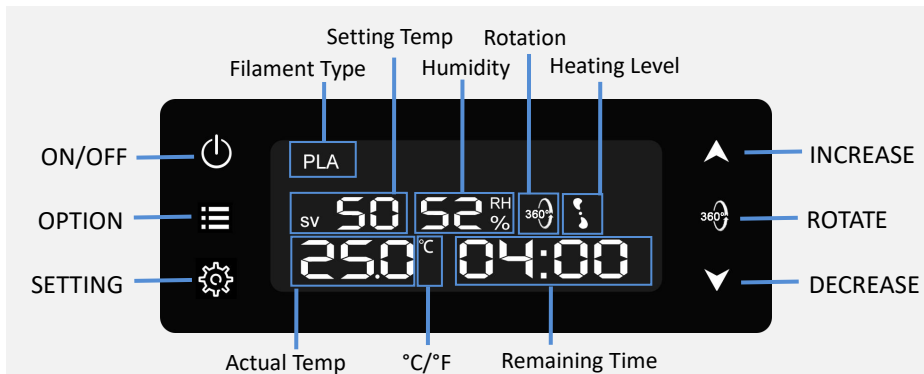
STEP. 5







STEP. 6












INTRODUCTION of SCREEN



*Before connecting to the power cord, please check if the voltage indicated on the product's bottom nameplate matches the power supply voltage. Otherwise, it may result in excessive or insufficient heating temperature.

- Connect the power cord and press the 'ON/OFF'  button to wake up the device.
- Press the 'OPTION'  button, and then use the 'INCREASE'  or 'DECREASE'  button to select the type of filament, which corresponds to different drying parameters. The available options include: PLA, ABS, PA, PC, PETG, ASA, PVA, TPU, PP, as well as M1, M2, M3 spare filament options.

*The default drying parameters provided are for reference only. It is recommended to adjust the drying parameters according to the moisture level and heat deformation temperature of the filaments.

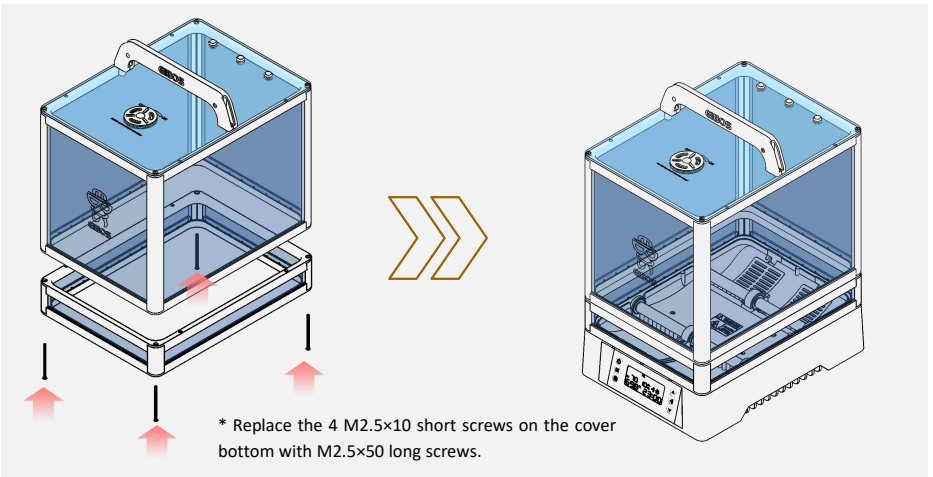
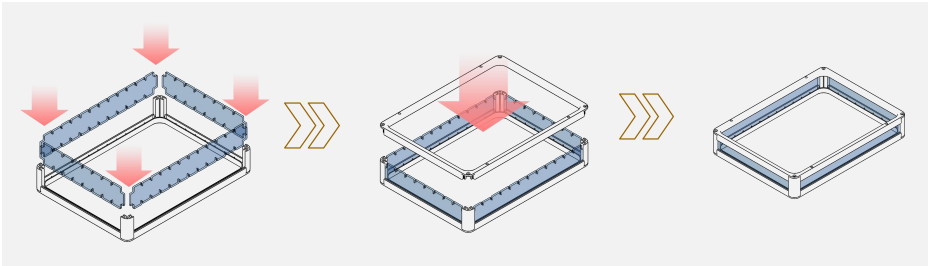
- Press the 'SETTING'  button to switch and change the setting temperature, heating level, and drying time. When the corresponding parameter is flashing, use the 'INCREASE'  or 'DECREASE'  button to adjust it. The drying time can be set from 30 minutes to 24 hours. When displaying '— — —', it means it is set to be always on without time limitation.
- Press the 'ROTATE'  button to enable or disable the filament spool rotation function. Make sure to secure the filament to the spool before activating the rotation function. Please turn off the rotation function during printing.
- Long-press the 'SETTING'  button for 3 seconds to switch between temperature units (°C/°F).
- Press the 'ON/OFF' button to enter humidity mode. Press the 'SETTING'  button to set the desired humidity level. When the humidity falls below the setup humidity level, the heating function will automatically turn on until it reaches the setup value, and repeatedly. Press the 'ON/OFF' button again to completely turn off the device.
- Long-pressing the 'ON/OFF'  button allows you to restore the device to its factory settings.
- There are three heating levels available. The minimum level  has the slowest rotation speed for the icon, while the maximum level  has the fastest rotation speed. It is recommended to use the lowest level for temperatures below 50°C and the highest level for temperatures above 60°C.

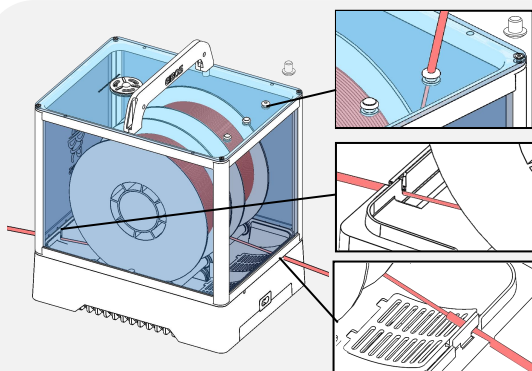
DATA SHEET

Filament	PLA	ABS	PETG	PA	TPU	PC	ASA	PVA	PP
Temperature	50°C	60°C	55°C	70°C	60°C	70°C	60°C	50°C	55°C
Timer	4H	2H	2H	12H	4H	8H	4H	4H	6H
Heating Level	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀	🌀

Expansion Parts for 3kg Spool

The factory capacity of the product is $\phi 210 \times 170 \text{mm}$. After adding the expansion parts, the capacity size will be $\phi 250 \times 170 \text{mm}$. Expansion parts are not included in the factory configuration and can be purchased separately on EIBOS official website.

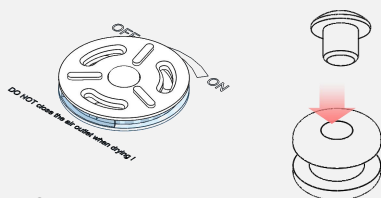




Filament outlets

The product is equipped with three directional 3D printing filament outlets, and you can freely choose the outlet direction based on the printer's position.

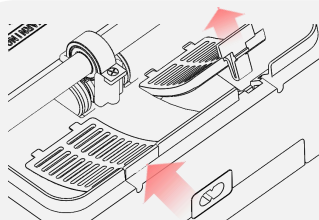
Adding a PTFE tube can make the feeding process smoother.



Exhaust vents

Rotating the top exhaust vents allows you to adjust the exhaust size, thereby regulating the drying effect.

When not using heat, you can close the exhaust vents and insert silicone stopper into the three holes on the top to prevent excessive moisture from entering.

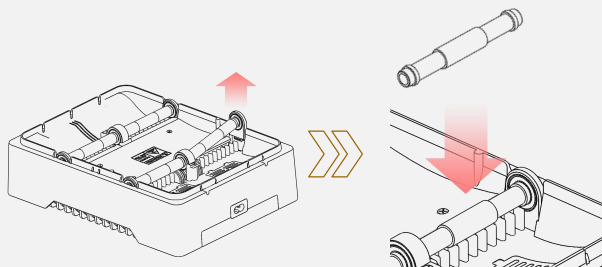


Desiccant placement slot

Pushing the latch can open the desiccant placement slot. When dryer is not working, the internal desiccant helps to create a drier environment inside the box, preventing moisture buildup.

Spare roller

To enable the rotation of one side of the filament spool while feeding the other side to the printer, you can accomplish this by replacing one of the rollers that are included in the spare parts.



9 FAQ

■Q1: The temperature or humidity is not accurate.

The temperature or humidity displayed on the screen are the values from the sensor's location and do not represent the temperature or humidity at any other position inside the box. The temperature at the sensor's location approximates the temperature near the filament, but it does not fully represent the temperature of the filament.

When using an external thermometer to measure temperature, it is recommended to use a laboratory-grade thermometer specifically designed for measuring AIR temperature. Household indoor thermometers, infrared thermometers, food thermometers, and similar devices are not suitable for measuring the temperature of this equipment.

The humidity value is only intended as a reference for changes in the internal environmental humidity of the product and does not represent the moisture content or level of the 3D printing filament.

■Q2: The temperature cannot reach the set value of 70°C.

When setting the temperature to 70°C, please ensure that the heating level is set to the maximum (Highest) ❄️. The heating time should be set for more than 1 hour. Additionally, adjust the exhaust vent opening to the middle position. However, please note that if your ambient temperature is too low, it may not be possible to reach 70°C.

■Q3: The rotation function is not working.

a. Check if the motor is rotating properly. The built-in rotation motor has a lifespan of approximately 1500 hours. If the motor has reached the end of its lifespan and is no longer functioning, you can visit EIBOS official website to purchase a replacement motor. Refer to the motor's instruction manual for specific replacement instructions.

b. Check if the spool is jammed.

c. Examine if the spool is slipping on the roller shaft. If so, you can remove any sharp edges (such as mold lines) on the edges of the spool. Alternatively, you can apply 3D printer adhesive or damping oil on the roller shaft to increase friction.

■Q4: The fan alarm is displaying on the screen. ❄️

When the fan icon ❄️ is blinking on the screen, it indicates an error in the fan system, possibly due to unstable wiring connections or interference with the fan component by foreign objects. If the fan alarm occurs, please contact EIBOS support email promptly for assistance.

■Q5: The temperature is displaying "LL" on the screen.

When the temperature displays 'LL' on the screen, it is due to a poor connection of the sensor interface, resulting in inaccurate temperature readings. Therefore, if this error occurs, please contact EIBOS support email promptly for assistance.

■Q6: How to perform regular maintenance.

a. When the spool rotates and rubs against the shaft, it can cause wear on the edges of the spool and result in the accumulation of plastic powder inside the device. It is important to regularly clean the internal components of the device to prevent any negative impact on printing. Please ensure to clean the device periodically to remove any dirt or residue.

b. Regularly lubricate the internal gears. Add lubricating oil to the internal gears according to the specific instructions provided by EIBOS. Visit the official EIBOS website to obtain detailed instructions on how to lubricate the gears properly.



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