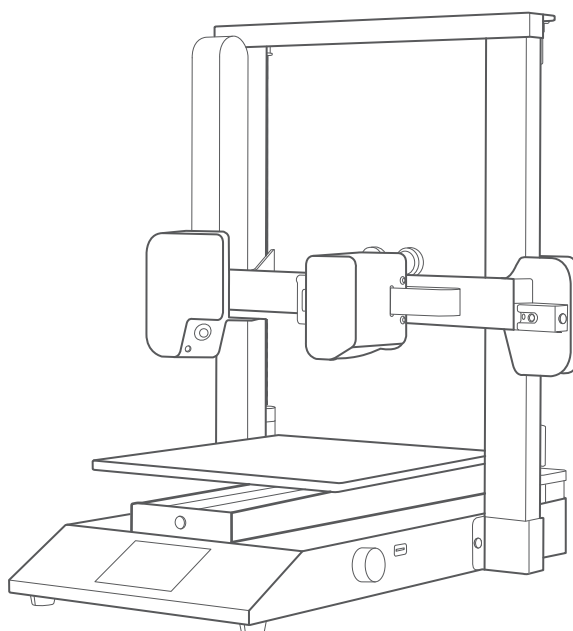


FOKOOS



Odin Smart
3D Printer

User Manual

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Directions Before Use

Dear FOKOOS folks:

Thank you for your support and trust in FOKOOS. In order for you to better understand and use this product, we recommend you to read this manual carefully before use and follow the instructions in it.

It is our lifelong goal to provide the best products and after-sales service to every customer. If you have any questions during use, please contact us via the email and other contact information provided at the end of this manual.

Also, if you have any other ideas, questions or concerns, please do not hesitate to contact us. We will always be here to help you.

In order to better experience our products, you can also learn about 3D printing through the following ways:

1. Please check the instructions and video tutorials included in the USB Drive.
2. Visit our FOKOOS official website:

www.fokoos.com

You can find 3D printing guidance, models, software, firmware, contact details, operation, etc.

Points For Attention

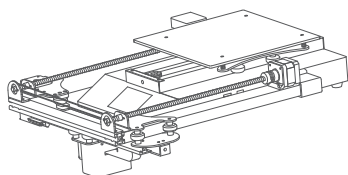
- When using the machine, please make sure that the ambient temperature is 5-38°C (41-98°F) and the humidity is 20%-80%RH, otherwise, the machine may not print normally.
- The machine should not be placed in an uneven, humid, dusty environment, because it will affect the service life of the machine, resulting in rust, fan rotation, and other phenomena.
- Do not touch the moving parts with your hands to avoid being pinched or burned when the machine is running.
- Do not put objects near the machines fan(s), it will damage the fan. Be careful of the string, hair, and so on getting caught in it, if accidentally caught, please turn off the power immediately.
- If the temperature is set, please do not repair or replace it empty-handed. Always wear gloves and protective equipment to prevent burns and hazards.
- The machine will be assembled with some small, sharp parts (such as screws, scissors, etc.). Children under 16 years old should not be allowed to operate the unit unsupervised. Adults are required to supervise them to avoid mis-operation resulting in cuts, and burns.
- Please operate in accordance with the manual during assembly to avoid leakage and wrong installation.
- After the 3d printer is installed, it is necessary to adjust the glass platform before printing. If not leveled well, will result in scratching the printing platform and damaging the nozzle.
- After leveling the machine, make sure to print the test model on the USB to check whether the 3d printer is working properly.
- Before turning on the printer, check that the supply voltage is set correctly, on the left side of the 3d printer. (110V/220V)
- Before starting to print, please ensure the print platform and nozzles are clean.

Equipment Parameters

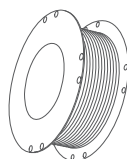
Model	FOISmart
Molding Technology	FDM
Print Size	235×235×250mm
Machine Size	418×415×460mm
Net Weight	7.4kg
Print Speed	50-300mm/s
Print Resolution	±0.1mm
Support File Formats	STL/OBJ/AMF
Supprts Materials	PLA/PLA+ /TPU/PETG/ABS Filament
Nozzle Diameter	MK8 Big Nozzle (Screw outer diameter: 8mm) 1.75×0.4mm
Nozzle Temprate	≦260°C
Layer Thickness	0.1-0.4mm
Hotend Temprete	≦100°C
Machine Structural	Dual Z-axis
Filements Sensor	Support
Resume Printing	Yes
Smart HD Camera	Integrated in printer
	2.4GHz Wi-Fi
	1080P Full HD, 2M Pixels
	Timelapse photography Layer by layer
	Timelapse video for Watch and Share
FOKOOS App	Andriod/IOS
Remote Monitoring	Supports in App
Remote Control	Supports in App
Print Mode	USB disk/Network/Online
Input Voltage	AC 115V/230V 50/60Hz
Output Voltage	DC 24V 14.5A

- The actual print speed is strongly related to the slicing software settings, the quality of the filament and the complexity of the model.

Spare Parts

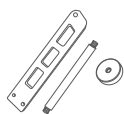


1. Machine Main Frame

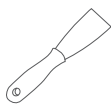


2. White PLA+ 250g Filament

3. Accessories and Tool Boxes



Filament Holder ×1



Spatula ×1



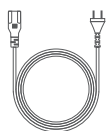
Diagonal Pliers ×1



Needle ×1



Tool kit ×1



Power Cable
×1



USB Cable
(Type-C) ×1



USB Flash Drive
(4G) ×1



Button Knob
Cover ×1



T-nut (M4)
×3



BLTouch
Bracket ×1



MK8 Big Nozzle
(Screw outer diameter:
8mm) 1.75×0.4mm ×2



BLTouch Bracket
Screw (Round Head
Hexagon M3×5) ×5

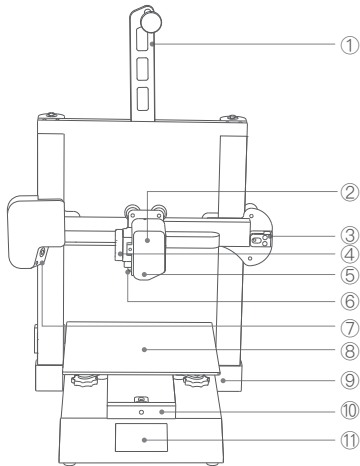


Fixing Screw (Round
Head Hexagonal
Socket M4×8) ×4



Filament Holder Screw
(Round Head Hexagonal
Socket M4×10 Screw) ×4

Machine Introduction



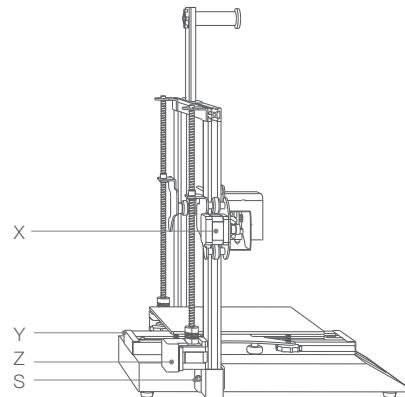
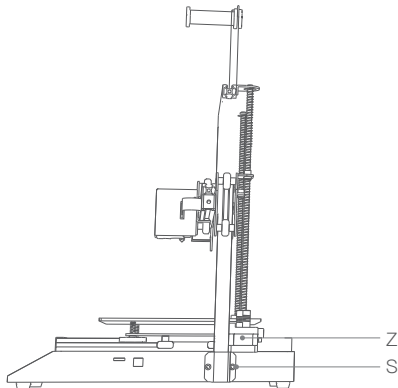
- ① Filament Holder
- ② Extruder
- ③ X-axis Belt Adjuster
- ④ Cooling Fan (4010 24v)
- ⑤ Blower Fan (4010 24v)
- ⑥ Print Head
- ⑦ HD Camera
- ⑧ Y-axis Belt Adjuster
- ⑨ Button Knob
- ⑩ LCD Touchscreen (3.5-inch)
- ⑪ Glass Platform (235×235mm)

X: X axis motor

Y: Y axis motor

Z: Z axis motor-l

S: Where screws need to be installed



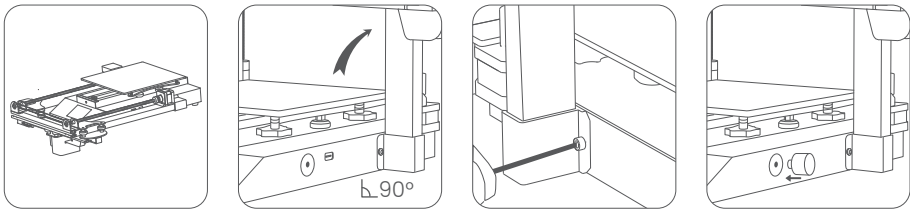
Z: Z axis motor

S: Where screws need to be installed

Assemble the 3D Printer

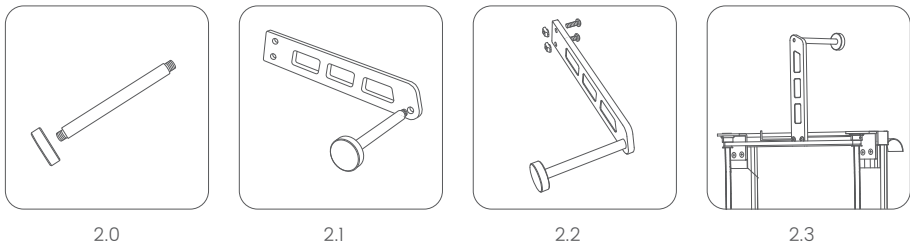
Step 1: Straighten the machine

- 1.0 First, take out the main body of the machine and place it gently on the desktop to avoid damaging the print head.
- 1.1 Take out four M4×8 screws and wrenches from the tool kit, stand the z axis to 90°, and screw the screws into the position shown in the picture, with 4 holes in total. Please refer to "Machine Introduction".



Step 2: Install the filament holder

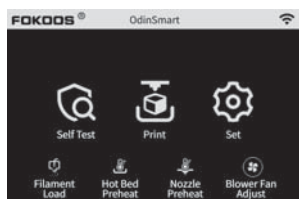
- 2.0 Take the filament holder kit out of the accessories box.
- 2.1 Combine the filament holder (Refer to Figure 2.1).
- 2.2 Install the M4×10 screw and T-nut M4 on the back end of the holder (Note: please do not tighten the nut (Refer to Figure 2.2)).
- 2.3 Install the filament holder on the top of the 3d printer. Note: the filament holder should face the same side as the extruder. (Refer to Figure 2.3).



Start Printing

Step 1: Bed Leveling

1.0 Click "Set ->Level"



1.0 At each leveling point, adjust the distance between the print head and the bed by rotating the four corners (Refer to Figure 1.0).

1.1 To adjust the distance between the nozzle and the hot bed turn the adjustment knobs at 5 points, you drag a A4 paper (Refer to Figure 1.1), and you feel a little resistance in both nozzle and hot bed directions.

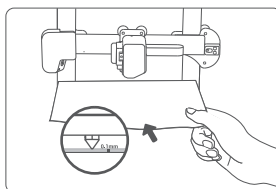
1.2 Adjust the knobs to keep a distance of 0~0.1mm from between the print head and the platform, as shown in Figure 1.2.

- Decrease the distance: Turn the wheels to the left.

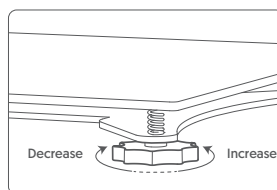
- Increase the distance: Turn the wheels to the right.



1.0



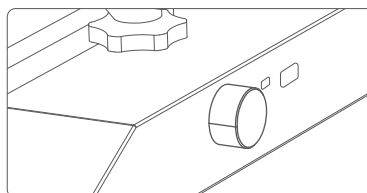
1.1



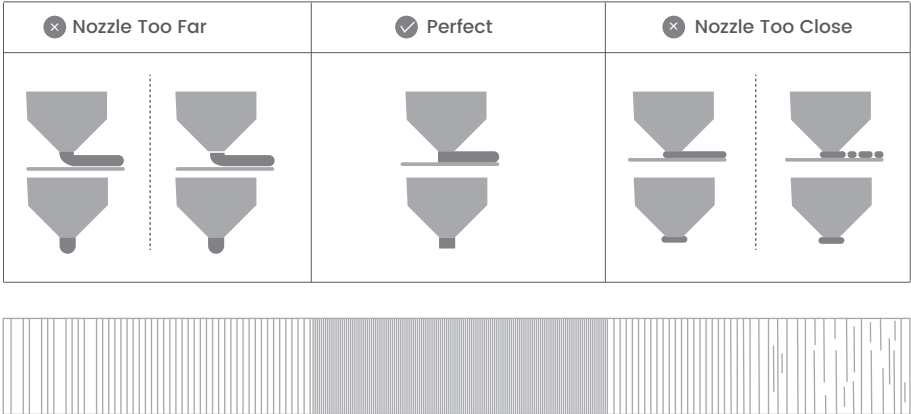
1.2

Tips:

If you want to adjust the z-axis compensation value ($\pm 2\text{mm}$) slightly, you can do so with the knob button.



Bed leveling tips

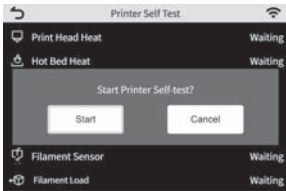


Step 2: Self-Test

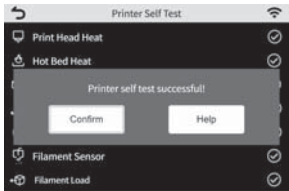
2.0 Click "Self Test" -> "Start", then start the Self Test.



2.0-1



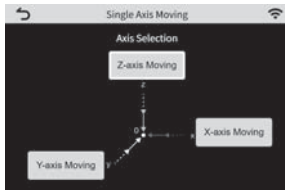
2.0-2



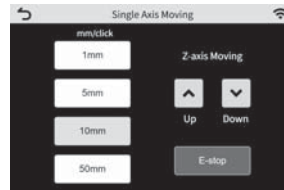
2.0-3

Step 3: Load filament

3.0 Please check the distance between print and hot bed, it is more than 10mm. If not, please click "Set->Move-> Z-axis Moving-> 10mm-> Up"

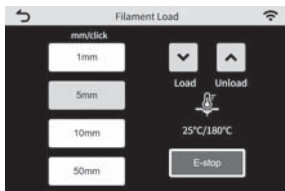


3.0-1



3.0-2

3.1 Click "Filament Load-> choose the distance -> Load".



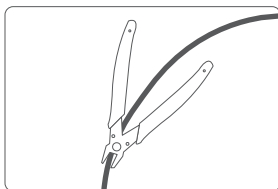
3.1

3.2 When the extruder temperature is heated to the target temperature, click "Confirm".

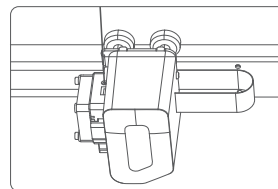


3.2

3.3 Cut the tip of the filament at a 30° angle (Refer to Figure 3.3-1) to make it a fine point and try to push it hard insert to the extrusion. You can feel that when the filament is inserted down, there will be a wheel to drive the filament load. (Refer to Figure 3.3-2).



3.3-1



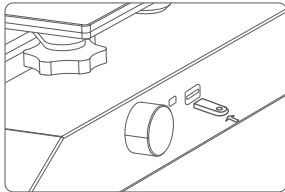
3.3-2

Step 4: Start printing or testing the machine

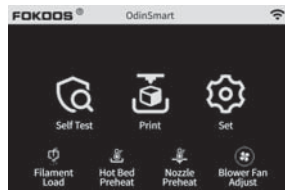
Method 1: Printing with USB

4.1.0 Insert USB (Refer to Figure 4.1.0-1)

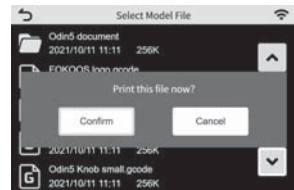
4.2.0 Click "Print" (Refer to Figure 4.1.0-2), select the .gcode file to print. (Refer to Figure 4.1.0-3)



4.1.0-1



4.1.0-2



4.1.0-3

Method 2: Using FOKOOS App

4.2.0 Download the FOKOOS App and create an account.



4.2.1 Open the App, tap on "Add Device" and choose Odin Smart.

4.2.2 Follow the tips in the App and connect the 3d printer to your phone.

Note: Only support 2.4GHz network, 5GHz network is not supported.

4.2.3 WiFi Light indications

- **Solid red light**
The WiFi is powering up
- **Slow flashing red light (Flashing 1 time every 3 seconds)**
System start-up error
- **Fast flashing red light (Flashing 1 time every 0.5 seconds)**
System is upgrading
- **Solid blue light**
WiFi connection is successful
- **Slow flashing blue light (Flashing 1 time every 3 seconds)**
WiFi is connecting to the router
- **Fast flashing blue light (Flashing 1 time every 0.5 seconds)**
WiFi is connecting to the server
- **Solid red & blue light**
System initialization in progress
- **Slow flashing red & blue light (Flashing 1 time every 3 seconds)**
The WiFi password is wrong, please reconnect

4.2.4 Get more info of this function, please check these links.



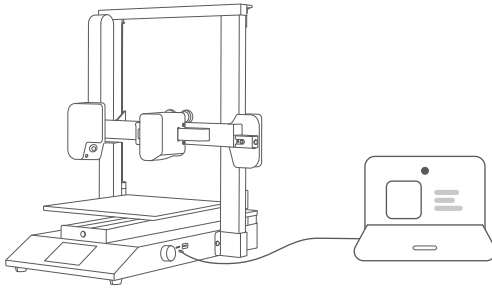
YouTube Guidance Video



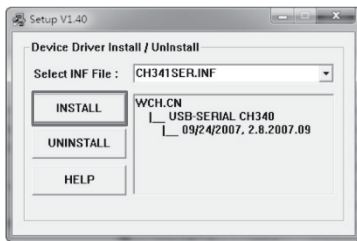
FOKOOS Website Support

Method 3: Connects to PC via USB Type-C cable

4.3.0 Connecting computer to the printer by USB cable



4.3.1 Install online drive: find "CH340G Drive" in the software and click on it, decompress the same compression package as your computer system and install it.



4.3.2 Enter the "MONITOR" interface, where you can preheat the extruder and heat bed and set their temperature.

Get more info of this function, please check these links.



[YouTube Guidance Video](#)



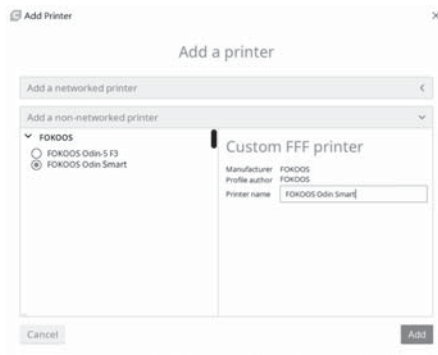
[FOKOOS Website Support](#)

Software Installation and Use

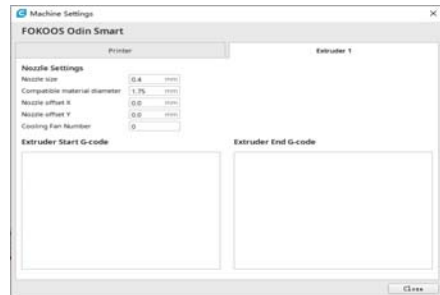
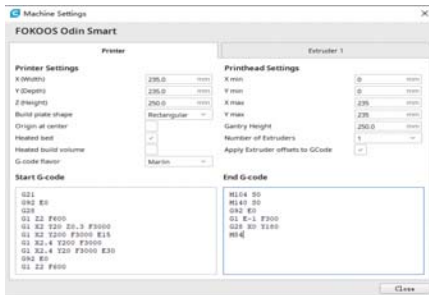
1. Download "Ultimaker Cura" Slice Software

<https://ultimaker.com/software/ultimaker-cura>

2. Add a printer ->Custom FFF printer ->Printer name: "FOKOOS Odin Smart" ->Add



The Machine Settings as the following picture:



FAQ

Check our the FAQ on our website!

www.fokoos.com

After-Service Policy

Warranty Period

1. 1-year Limited Warranty begins from the date you purchase your product.
2. 3-months Limited Part Warranty for consumable parts. (Nozzles, glass platform, etc).
3. No warranty for gift tools (USB, USB cable, wrench, spatula, pliers, etc).

Note: When requesting after-sales service, please provide us with your order number and product model, and describe the problem in detail.

FOKOOS does not guarantee the service as a result of:

1. For any purpose other than normal household use. (e.g. commercial or leasing purposes)
2. Use parts not assembled according to instructions.
3. Damages includes, but is not limited to, damage caused by animals, lightning, abnormal voltage, water or fire, natural disaster, or transportation.
4. Normal wear of accessories or consumables for use as a nozzle module.
5. Repair or modification carried out by an unauthorized service organization other than FOKOOS authorize.

Timely customer service via

support.us@fokoos.com

Welcome to join our FOKOOS Facebook Community:

<https://www.facebook.com/groups/fokoos> (FOKOOS Official User Group)

More users share and products info in it.



Statement

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

ISED Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

RF Exposure Statement

To maintain compliance with IC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

Déclaration de l'ISED Canada

Cet appareil contient des émetteurs/récepteurs exempts de licence se conformer à l'innovation, la science et le développement économique Les RSS du Canada exemptes de licence. Leur fonctionnement suivant deux conditions:

- 1) cet appareil ne peut pas causer d'interférences et.
- 2) ce dispositif doit accepter toute interférence, y compris peut provoquer le fonctionnement indésirable de l'appareil.

Exposition aux rayonnements: Cet équipement est conforme aux radiations du Canada limites d'exposition pour un environnement incontrôlé.

noncé d'exposition RF

Pour maintenir le respect des guides d'exposition RF d'IC, cquipment doit être installé et actionné avec une distance minimale de 20cm le radiateur de votre corps. Cet appareil et ses antennes ne doivent pas être colocalisé ou en opération en conjonction avec toute autre antenne ou émetteur.

Model: FOISmart

Shenzhen Apeman Innovations Technology Co., Ltd.

1808, Heng Lu E Times Building, No. 159, North Pingji Road,
Hehua Community, Pinghu Street, Longgang District, Shenzhen,
Guangdong, CHINA

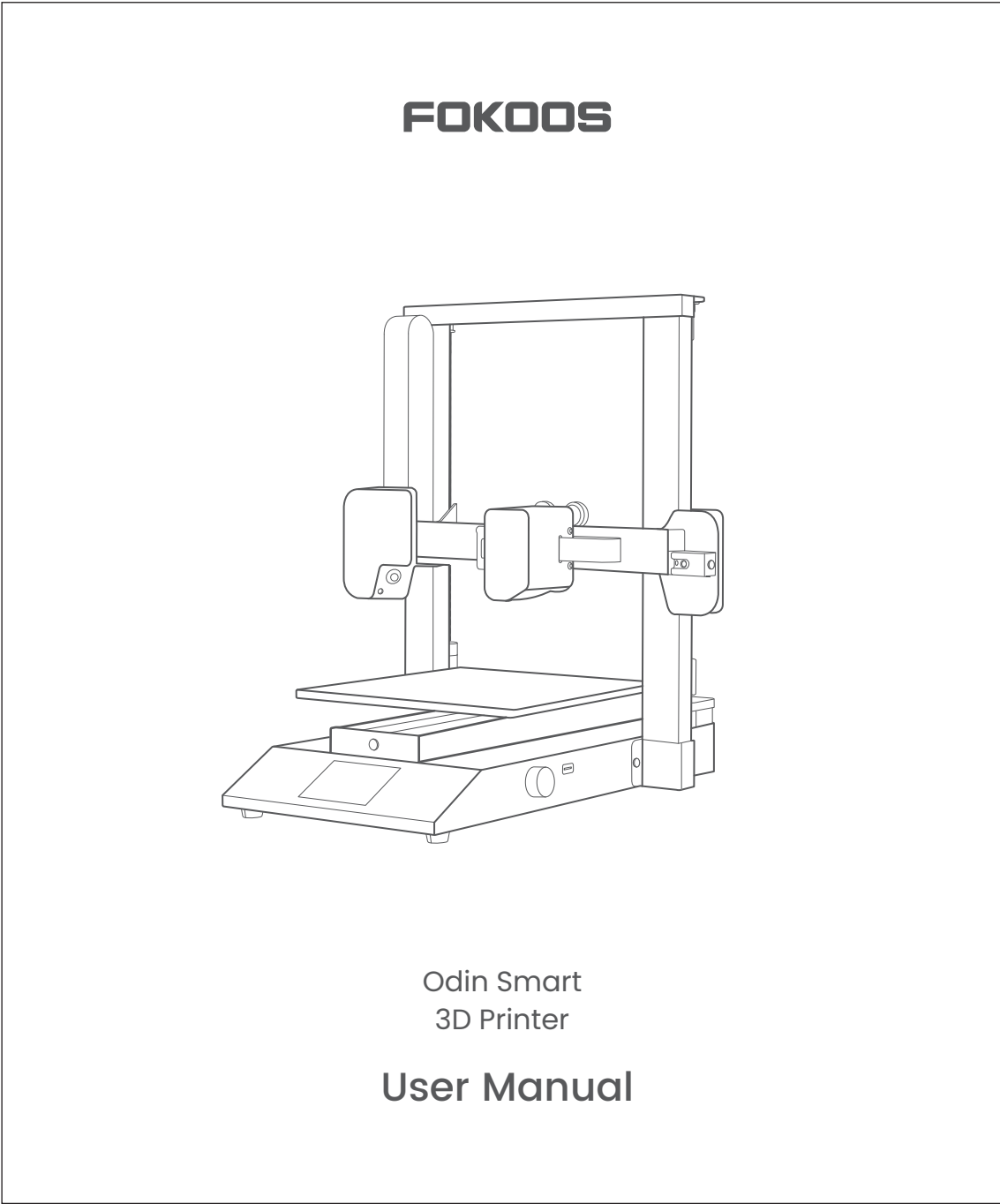
EC REP

OPBC GmbH

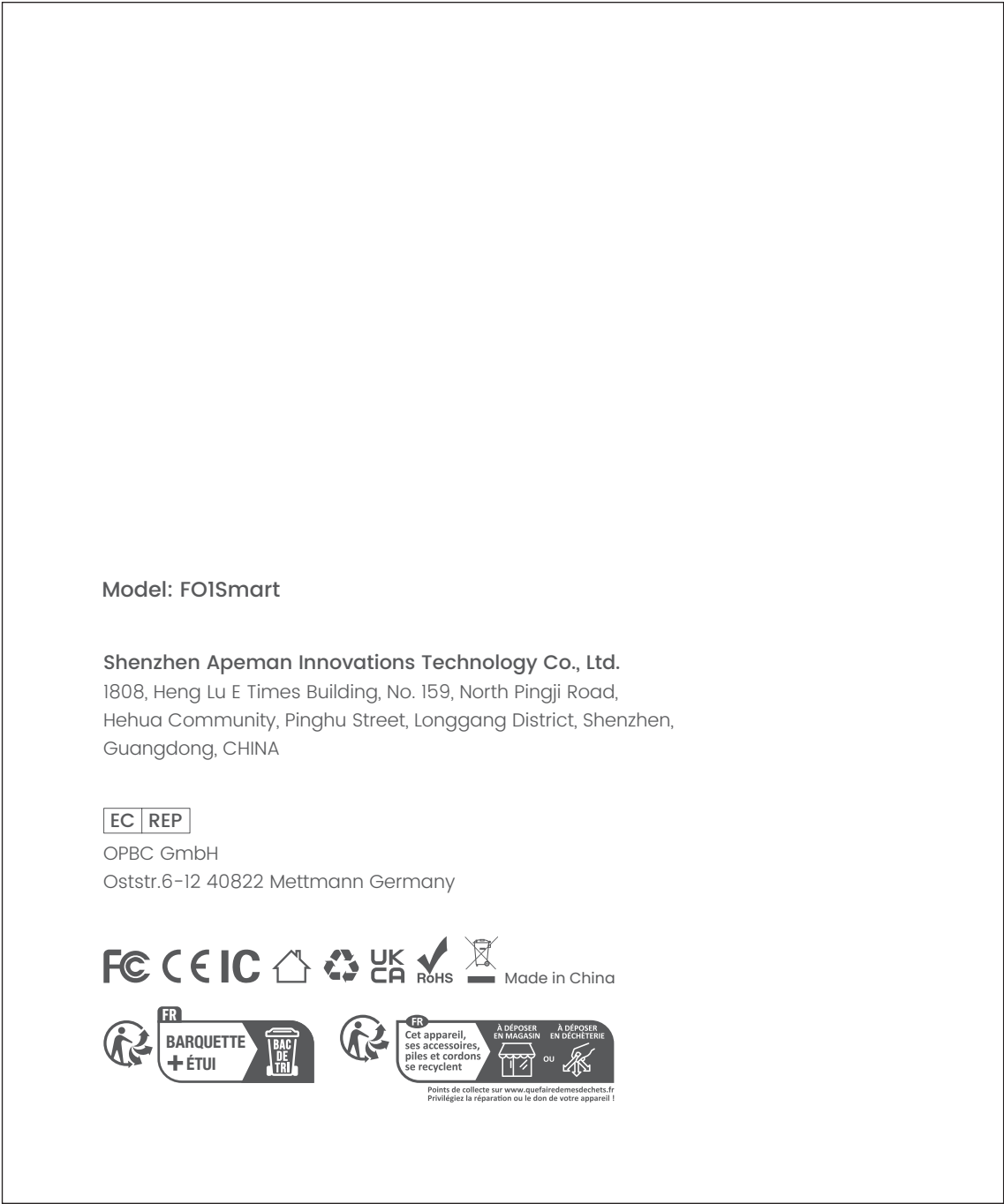
Oststr.6-12 40822 Mettmann Germany



Points de collecte sur www.quefairedelesdechets.fr
Privilégiez la réparation ou le don de votre appareil !



封面



封底

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	本图纸应与说明，产品状况，产品结构施工图及有关图纸协调使用，发现任何差异请立即通知设计师。	立项时间:	2022/4/24	1. 尺寸:150*180MM	2. 材质: 封面封底128双胶纸/内页80g书纸；	1. 设计师:		2. 销售确认:	
		计划时间:	2022/4/27						
		品牌:	FOKOOS	3. 装订方式: 骑马钉	4. 颜色: 四色印刷	3. 设计主管审核:		4. 项目经理确认:	
		型号:	FO1 Smart						
图档中所有尺寸比例为1:1。 公差: L(长)*(宽): +1/-1mm,H(高): ±1mm	类型:	说明书	备注: 单独一本英文		5. 品牌总监审核:		日期		
	版本号:	V1.0.0							
		版本变更描述:	新品设计						