

3D Printer User Manual

Dear Consumers,

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our teams wiss

always be ready to render you the best services. Please contact us via the phone number or e-mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you can also learn how to use the printer in the following ways: View the accompanied instructions and videos in the U disk.

Visit our official website www.creality.com to find relevant software/hardware information,contact details and operation and maintenance instructions.

Firmware Upgrade

Please login the official website https://www.creality.com/download, switch the language and select the relevant printer and model and download the required firmware, you can use it after the installation is finished.

NOTES

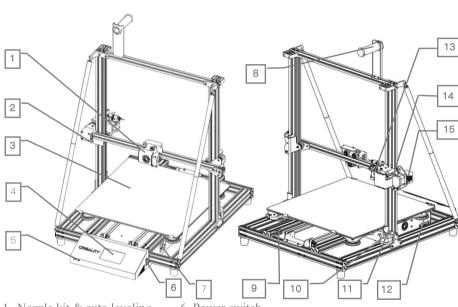
- Do not use the printer any way other than described herein in order to avoid personal injury or property damage.
- 2 Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, low-dust environment.
- 3 Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.
- 4 Please use recommended resin to in case damage of machine.
- 5 Do not use any other power cable except the one supplied. Always use a grounded three-prong power outlet.
- 6 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.
- ③ Please wait a moment after the print is finished. And please wear gloves to take out the print by tools.
- Olean 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.
- 1 This machine is equipped with a security protection mechanism. Do not manually move the nozzle and printing platform mechanism manually while booting up, otherwise the device will automatically power off for safety.
- Users shallcomply with related nation and region's laws, regulations and ethical codes where the equipment or regional laws, regulations and ethical codes where herein refeffed product and produced prints by it is located.

Contents

Introduction	• • •		 •		 •	• •	 •		•	 •	 •	• •		•	 	•	 •	• •	 •		•	• •	•	• •		•	 •	• •	 •	01-01
General List • • • •			 •	• •	 •	• •	 •		•	 •	 •	• •	• •	•	 • •	•	 •		 •		•	• •	•	• •	• •	•	 •	• •	 •	02-03
Device Installion· •			 •	• •		• •	 •	• •	•	 •				•	 	•		• •	 •				•		• •	•	 •		 •	04-04
Screen Information	• • •	• •	 •	• •	 •		 •			 •					 	• •	 •	• •	 •		•		•		• •	•	 • /			06-06
Loading Filament •							 •			 •				•	 		 •		 •				•			•	 •			07-07
Bed Leveling			 •						•	 •				•	 	•			 •				•			•	 •			08-09
Software Installation	n · ·		 •	• •	 •		 •			 •				•	 	•	 •		 •	• •	•		•	• •		•	 •		 •	10-10
For the First Printing	ξ						 								 															11-11



1. Introduction



- 1. Nozzle kit & auto leveling
- 2. X-axis limit switch
- 3. Printing platform
- 4. Touch screen
- 5. Storage card slot & USB port
- 6. Power switch
- 7. Power socket
- 8. Filament holder
- 9. Y-axis limit switch
- 10. Z-axis motor

- 11. Coupling
- 12. XL bed-leveling nut
- 13. Extruder (E) motor
- 14. Filament detector
- 15. X-axis motor

Parame	eters
Model	CR-10 Max
Molding Size	450 x 450 x 470mm
Molding Tech.	FDM
Nozzle Number	1
Slice Thickness	0.1mm-0.4mm
Nozzle Diameter	0.4mm 0.8mm
Precision	±0.1mm
Fliament	φ1.75mm PLA
File Format	STL/OBJ/AMF
Working Mode	Online or Storage card offline
Slice Software	Creality Slicer/Cura/ Repetier-Host/Simplify3D
Power Supply Spec.	Motherboard 75W, 24V, input: 100-240V AC, output: 24V; Hotbed 750W, 24V, input: 100-240V AC, output: 24V
Machine Power	750W
Hotbed Power	700W
Hotbed Temp.	≤100°C
Nozzle Temp.	≤250°C
Resume Print	Yes
Filament Detector	Yes
Dual Z-Axis	Yes
Auto Leveing	Yes
Language Selection	EN/CN
Operating System	Windows XP/Vista//7/8/10 MAC/Linux

2.General List











Tool Box



Base Frame
Tool List

Printing Platform

Gantry Frame

Pull Rod

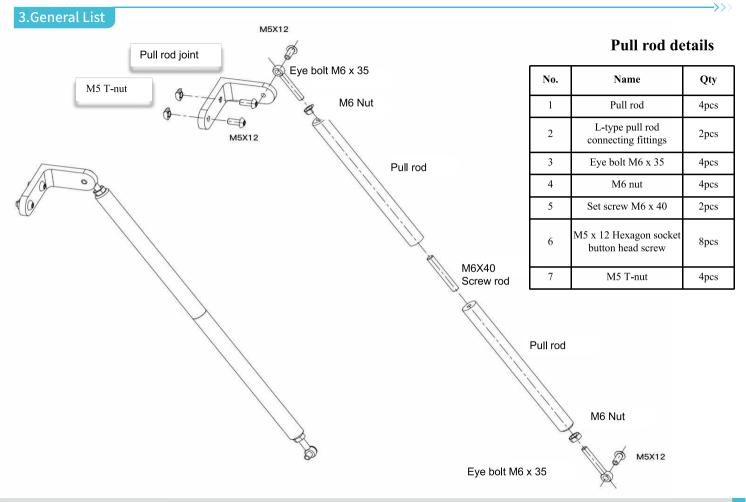
Filament (1kg)

		Qty
1	Wrench & Screw Driver	1
2	Storage Card	1
3	Spatula	1
4	Pliers	1
5	Nozzle Cleaner	1
6	Cable Ties	2
7	Filament Holder	1

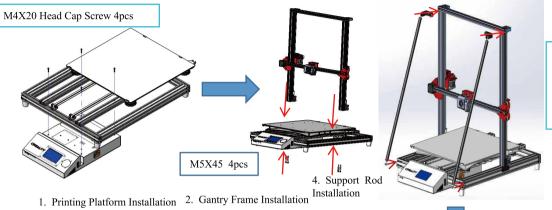
No.			Qty		
8		Filament Holder Tube with Nuts	1		
9		Power Cord			
10	0	USB Cable			
11	Ŵ	M4X20 Hexagon Socket Head Cap Screws	10		
12	•	T-type Fixed block	2		
13		Spacer	1		
14		Feeler Gauge	1		
12		Cap Screws T-type Fixed block Spacer	2		

No.			Qty
15	•	Spare Parts	1
16	IIII	M5x45 Sems Screw	4
17	P	Hexagon flat round head M4X8	2
18	Ø	M4 T-Nut	2
19)	Blue line claw	2
20	Control of the Contro	BL-Touch probe	1

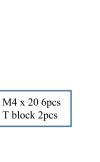
2



4.Device Installtion



Support Rod 4pcs M6 x 40 Screw rod 2pcs Eye Bolt M6 x 26 2pcs M6 Nut 4pcs M5 x 12 Screw 8pcs M5 T-Nut 4pcs



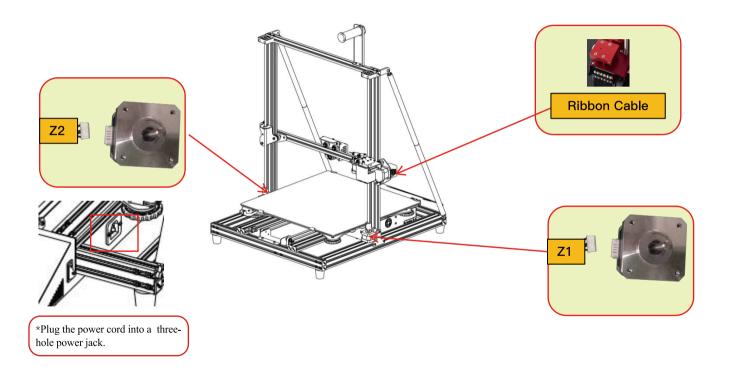
3. Gantry Frame Fixation



M4X8 Hexagon flat round head 2pcs M4 T-Nut 2pcs

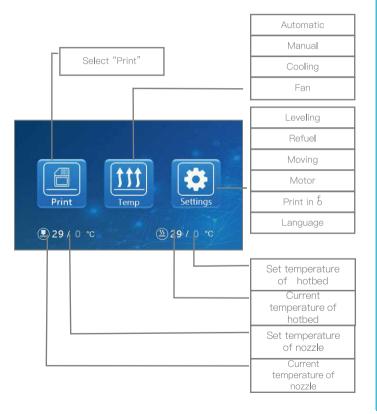
5. Filament Holder Installation

5.Cable Connection



O

6.Software Installation



Screen Information										
Main Menu	Sub Menu	Explanation								
		Stop								
		Pause/Continue								
			Print speed							
Print	Storage Card			Nozzle temp).					
	J	Adjust		Hot-bed tem	ρ.					
		, i		Fan						
			Temperati up/Stop	ire C	ontinue/Stop					
	Automatic		PLA \ABS	(195°\240°)						
Temp	Manual	Nozzle preheat								
	ivianuai		Hot-bed	preheat						
	Cooling		Yes	\No						
	Fan		On'	Off						
		Z:	-axis: Z home,	+0.1mm, - 0.1	mm					
		AUX leveling	Please click numbers (①~⑤) to assisted leveling							
	Leveling	AUTO leveling (switch)								
		Platform measurement (measurement parameters)								
G 41:		Withdraw								
Setting	Refuel		Fe	ed						
	Moving	X-axis	Y-axis	Z-axis	Z home					
	Motor off	Yes \No								
	Language	English\Chinese								
	Printer info	Device model, firmware version, printing size, official website								



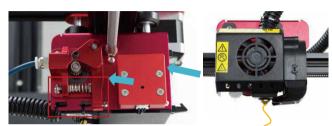
7.Loading Filament

Preheat

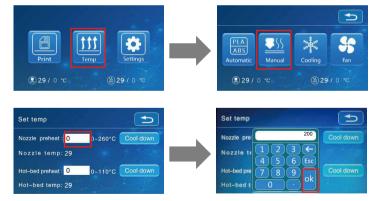
Method 1.



Feeding



Method 2.



Go through the filament detector to press and hold the extruder spring. Insert the filament to the position of nozzle through the hole on the extruder. Continue feeding until you see filament extrude from the nozzle.

Replacing Filament During Printing:

- 1. Cut the filament near the extruder and feed new filament slowly until new filament is fed into the feeding pipe.

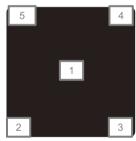
 (Or)
- 2. Preheat the nozzle and replace the used filament with new filament.

8.Bed Leveling

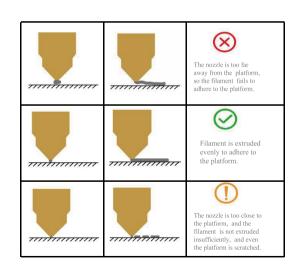


- Tighten four leveling nuts at the bottom of the platform before initial leveling.
- Select "Settings" → "Leveling Mode" → "Assisted Leveling", click number ②.





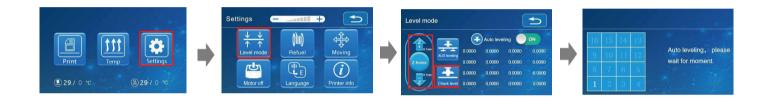
- 3. Adjust the platform height by turning the knob underneath. Adjust the printing platform and nozzle to enable the two to just fit each other perfectly with a gap of 0.05mm. Use a piece of A4 paper to assist with the leveling to make sure that the nozzle just scratches on this A4 paper.
- 4. Adjust all leveling nuts with four corners.
- 5. Click number ① to test if the platform gap is proper.
- 6. Repeat above steps once or twice if necessary.



9.Bed Leveling

◆ Automatic leveling

If you need to do automatic leveling, you can change to it in the following interface:



Detailed instructions for use are available in the Storage card!

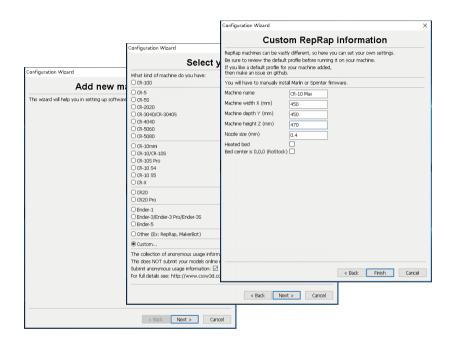
10.Software Installation



1. Double click to install the software



2. Double click to open the software



3. Select language \rightarrow Next \rightarrow Select your machine \rightarrow Next \rightarrow Finish

Please refer to the Slice Software User Manual in the Storage card for details of software use!

11.First Printing

1. Slicing



Open the software → Load → Select the file → Wait for slicing to finish, and save the goode file to Storage card.

* File name must be English or number. Don't use Chinese or special symbols

2. Printing

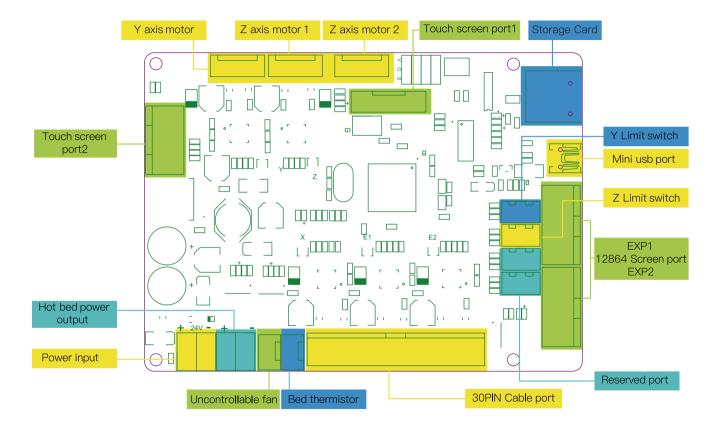


Insert the Storage card \rightarrow Print \rightarrow Select Model \rightarrow Print

 \mathbf{A}

Warning: Please don't insert or remove TF card or SD card during printing.

12. Circuit Wiring 电路接线





13. FDM 3D PRINTING FILAMENTS



HP-PLA

Upgraded environmentally friendly formula, matte effect, high toughness, and fine printing. The raw materials are imported from the United States, besides, there are rich colors for customers to choose



CR-PLA CR-PETG CR-ABS CR-TPU

Targeting at mid-end users, CR series is with transparent tray plus black-white color box design. Its slight tolerance in wire diameter contributes to stable printing quality. CR series meets your demands of daily design and prototype making.



HC-PLA HC-PETG HC-ABS HC-TPU

HC series is cost-efficient. It's widely applicable to general FDM printer product designs on the market to meet your daily design and different prototyping needs



EN-PLA EN-PETG EN-ABS EN-TPU

Ender series is widely applied to general FDM printer design which meet customers' needs of daily design and different prototyping needs.

3D PRINTER UV SENSITIVE RESIN

Standard Resir

Low shrinkage, fast printing speed, amlost odorless, and it's equipped with rigidity and toughness, suitable for printing common product prototypes and display models, that's also highly compatible with LCD printers.

Low Odor Resir

Low odor, high precision, detail textures are very expressive.-Good fluidity, high printing success rate. Rich colors, to meet the customer's color needs, preferred for animation manual, craft furnishing industry, etc..

ABS Like Resi

With high hardness, high toughness of physical properties and strong impact resistance, it can be directly drilled on the finished models, mainly used in industrial prototype and other fields.

Dental Cast Resin

Low shrinkage, due to the low shrinkage characteristics, the size is more accurate. It's not easy to deform under pressure after molding. Used for making porcelain teeth.

Elastic Resin

Elastic Resin features good elasticity after high-strength extruding or stretching, widely applied to damping and contacting surfaces, etc., preferred to be used by people full of originality and ideas in design.

Water Washable Resin

The model can be washed with water directly, and it's safe, environmentally friendly, with high surface accuracy, short cleaning time and low material cost. Water Washable Resin is currently one of the favorite new materials for schools, educational institutions and printing enthusiasts.

Dental Mode Resir

The surface hardness is extremely high, scratch-resistant, and has low shrinkage characteristics. It is mainly used in dental implant restoration and invisible braces printing in medical dentistry.

Toughness Resir

Toughness Resin is a medium-hard, wear-resistant, and repeatedly stretchable material. It is used in parts which need to be repeatedly stretched in friction devices.

High Temperature Resi

High Temperature resin is mainly used in making high temperature rubber molds, which can withstand temperatures of about 200°C without cracking and maintain good strength, stiffness and thermal stability.

Jewelry Cast Resi

Widely applied to jewelry industry. Excellent combustion performance, low expansion coefficient, combustion without residue. Forming process is stable without deformation. The finished product has smooth surface and high precision.

14. UV sensitive resin parameter information

Related Parameters	Standard Resin	ABS Like Resin	Dental Cast Resin	Elastic Resin	Water Washable Resin	Denta l Mode Resin	Toughness Resin	High Temperature Resin	Jewelry Cast Resin
Viscosity	150–250MPa·s (NDJ–8S Rotational Viscometer (25°C))	200–350MPa·s (NDJ–8S Rotational Viscometer (25°C))	50–170MPa·s (NDJ–8S Rotational Viscometer (25°C))	300–1000MPa·s (NDJ–8S Rotational Viscometer (25℃))	100–350MPa·s (NDJ–8S Rotational Viscometer (25°C))	150–300MPa·s (NDJ–8S Rotational Viscometer (25°C))	150=300MPa·s (NDJ=8S Rotational Viscometer (25°C))	150-300MPa·s (NDJ-8S Rotational Viscometer (25°C))	100-150MPa·s (NDJ-8S Rotational Viscometer (25°C))
Absorption Band	355nm-410nm	355nm-410nm	355nm-410nm	385nm-410nm	385nm-410nm	355nm-410nm	355nm-410nm	355nm-410nm	355nm-410nm
Density	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.13g/cm ³ (Density meter (25°C))	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.25g/cm³ (Density meter (25°C))	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.25g/cm ³ (Density meter (25°C))	1.05-1.13g/cm ³ (Density meter (25°C))
Flexural Modulus	1.882-2.385Mpa	1.192–2.525Mpa	1.192–2.525Mpa	1.882-2.385Mpa	1.882-2.385Mpa	1.882–2.385Mpa	1.882-2.385Mpa	1.882-2.385Mpa	1.192–2.525Mpa
Bending Strength	59-70MPa	68-80MPa	49–58MPa	40–70MPa	40–70MPa	59–70MPa	40-70MPa	59–70MPa	49–58MPa
Heat Distortion Temperature	80°C	80°C	75°C	80°C	80°C	80°C	80°C	220°C	65°C
Thermal Expansion Coefficient	95*E-6	95*E-6	95*E-6	95*E-6	95*E-6	95*E-6	95*E-6	95*E-6	95*E-6
Volume Shrinkage	3.72-4.24%	3.72-4.24%	1.88–2.45%	3.72-4.24%	3.72-4.24%	1.56–1.95%	3.72-4.24%	3.72-4.24%	4.06-5.08%
Linear Shrinkage	1.05–1.35%	1.05–1.35%	0.8–1%	1.05–1.35%	1.05–1.35%	0.85-1.05%	1.05–1.35%	1.05–1.35%	1.05–1.35%
Tensile Strength	36-52MPa	42-62MPa	42–62MPa	30-52MPa	30-52MPa	42-62MPa	30-52MPa	36-52MPa	42-62MPa
Tensile Modulus	1.779-2.385MPa	1.86-2.645MPa	1.86-2.645MPa	1.779-2.385MPa	1.779-2.385MPa	1.779-2.385MPa	1.779-2.385MPa	1.779-2.385MPa	1.86-2.645MPa
Elongation at Break	11%-20%	11%-21%	11%-20%	200%	120%	11%-20%	130%	11%-20%	11%-20%
Shore Hardness	84D	75-80D	80-88D	20-30D	80-85D	82D	65-75D	86D	65D
Glass Transition Temperature	100℃	100°C	78℃	100°C	100°C	100℃	100°C	100°C	78℃
Density	1.05-1.25g/cm ³	1.05-1.13g/cm ³	1.05–1.13g/cm ³	1.05–1.25g/cm ³	1.05-1.25g/cm ³	1.05-1.25g/cm ³	1.05-1.25g/cm ³	1.05-1.25g/cm ³	1.05-1.13g/cm ³
Notched Impact Strength	44–49J/m²	60-80J/m²	44–49J/m²	41–48J/m²	41–48J/m²	41–49J/m²	41–48J/m²	44–49J/m²	44–49J/m²

15. Filaments Parameter Information

Material		Print Temp (℃)	Bed Temp (℃)	Difficulty	Flexibility	Shrinkage	Ductility	Applicable Models
	HP-PLA	190–220	50-60	•	••	•	•••	Suitable for 99% FDM models
PLA	HP-PLAx3	190–220	50-60	•	••	•	•••	Suitable for 99% FDM models
Series	CR-PLA	190–220	50-60	•	••	•	•••	Suitable for 99% FDM models
	HC/EN-PLA	190-220	50-60	•	••	•	••	Suitable for 99% FDM models
ABS		220–260	90–110	••••	••	•••	•••	Hot bed is needed, and Creality printer enclosure is recommended for DIY machine
	PETG	230–250	60-100	•••	••	••	•••	Hot bed is needed, and Creality printer enclosure is recommended for DIY machine
	TPU	210–240	50	••	••••	•	••••	Direct extrusion models
	Silk	190–220	50-60	•	••	•	••	Suitable for 99% FDM models
	Nylon	230–260	80-90	••••	•••	••••	••••	Hot bed is needed, and Creality printer enclosure is recommended for DIY machine
	Carbon dinary type)	190–220	50-60	•	•	•	••	Suitable for 99% FDM models
	dvertising word ament–PLA	190-220	50-60	•	••	•	••	Creality K5、K8、T5
Low temperature filament-PCL		60–100	-	•	•••	•	••••	Low temperature 3D printing pen





SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.

Add:18F, JinXiuHongDu Building, Meilong Blvd, Longhua Dist., Shenzhen, China 518131 Official Website: www.creality.com

Tel: +86 775-8523 4565

E-mail: info@creality.com cs@creality.com

www.creality.com

vip.creality.com

After-Sales Service Card

Warranty Policy ←

- 1-year Limited Warranty since the date of product purchase.
- 6-months Limited Part Warranty for UV light.
- 3-months Limited Part Warranty for 2K Screen.
- No Warranty for the Release Film and Product Gift (U disk, Gloves, Screwdriver, Paper funnel, Brush, etc.)

Hotline: +86 755-85234565

What Is Covered? \leftarrow

Any defects in material, workmanship of product will be covered until you provide any relating documents and information, including but not limited to:

- User of the product are in the country of purchase
- Defective product is a CREALITY product
- Proof of Purchase

What Is Not Covered? ←

CREALITY does not guarantee the service as a result of:

- 1. The proof of purchase being altered or made illegible.
- 2. The product label or serial number on the product being altered or made illegible.
- 3. Normal wear of accessories or consumables for use as release film.
- 4. Malfunction or damage caused by personal retrofitting, or improper installation and usage.
- 5. Malfunction or damage caused by use in non-recommended working environments.
- 6. Malfunction or damage caused by overuse (overload) or wrong maintenance (damp, mildew, etc.)
- 7. Malfunction or damage caused by Force Majeure (fire hazard, earthquake, lightning and floods, etc.)
- 8. Malfunction or damage caused by the use of other brand parts or consumable.

Technical Support \leftarrow

Please enjoy our technical support of the whole lifetime (Except technical problem beyond product itself) after purchase the product while product documents as user manual attached in U disk for instruction.

Please provide product Serial Number when apply for technical support.

Kindly Notification ←

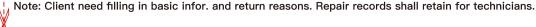
Please read the user manual and warranty card carefully before the use. For any service, Please priorly contact local seller or contact us via

Email: cs@creality.com for support.

WARRANTY

Before returning the product and filling in a warranty, please contact after-sale person for going through after-sale formality. And attach this waranty card along with the returned machine.

Repair □	Change □	Return □	
	Telephone:		Malfuction And Damage Depiction Or Return And Change Reasons Suggestions:
Serial Number: Channel: Platform E	Order Numb	per:	Repair Records:
Date of purchase Da	yYe	ear	



Due to the differences between different machine models, the physical objects and the final images can differ. The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.



SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.

Add:18F,JinXiuHongDu Building, Meilong Blvd., Longhua Dist.,

Shenzhen, China 518131

Official Website: www.creality.com

Tel: +86 755-8523 4565

E-mail: info@creality.com cs@creality.com

Scan To Learn More











