

3D Patternless Edger

The Instructions of

PLE-6800



Please read this instruction before using the instrument to avoid damage or personal injury; Please keep this instruction properly for any access.

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1. Summary

1.1 Brief introduction

This set of products is used in combination with PLE-6800 3D Patternless edgers and PLE-680 Blocker+Scanner. The host applies 3D intelligent control, graphics editing and processing and other technologies, Can be perfect processing PC, resin, glass and other different materials and different refractive index of the lens; Different edges type can be selected for processing; Can be on the sharp edge, flat edge polishing processing; Accurate processing can also be achieved according to the frame material setting; Powerful graphics editing function, can be convenient and fast for a variety of edge Settings and storage; External multi-channel USB and RS232 interface can facilitate external related equipment and software upgrade, Convenient for maintenance and customer use.

1.2 Equipment type and protection classification

1.2.1 Product grade: Level 2

1.2.2 Electrical impact: Class I (grounded)

1.2.3 Electrical impact protection class: Class B

1.2.4 Waterproof grade: ordinary

1.2.5 Safety environment: not suitable for use in flammable, explosive and dust environment

1.2.6 Operation mode: continuous

2. Security information


2.1 Brief introduction

Safety is everyone's responsibility. The safe use of this equipment mainly depends on the installer, user, operator, and maintainer. Before attempting to install, clean, repair, or adjust this equipment and any associated accessories, Personnel concerned must study and be familiar with this manual. The instructions contained in this manual should be fully understood and followed, To strengthen the safety of users and operators. Therefore, the following safety notices are appropriately placed in the text of this manual, To emphasize security-related information that requires particular emphasis. All users, operators and maintainers must be familiar with and pay special attention to all warnings and reminders contained herein.

In this manual, the sign indicates the degree or level of the safety warning. Definition is as follows.









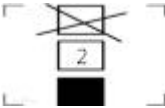



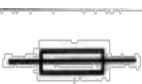
Warning: indicates a potentially dangerous condition; death or serious injury.

 Note: indicates a dangerous condition that, if not avoided, may result in minor or moderate injury or some property damage.

2.2 Safety signs

The International Electrotechnical Commission (IEC) has established a set of symbols for medical and other electronic devices to classify or warn of any potential hazards. The classification and notation are shown below.

	<p>Power switch</p>
	<p>Safety warning</p>
	<p>Date of manufacture</p>
	<p>Manufacturer</p>
	<p>Handle with care</p>
	<p>Safety ground</p>
	<p>Temperature limitation</p>
	<p>Save dry</p>
	<p>Code the second floor</p>

	Waste treatment
	Fuse wire

2.3 Environmental factors

· Do not use the equipment in the presence of flammable, explosive or volatile solvents such as alcohol, benzene or similar chemicals, Such an environment has adverse effects on the instrument; this instrument is only suitable for indoor use.

· This equipment should not be used in too hot or dusty environment. The machine should not be exposed to water splashing, dripping, or spray. Do not place containers containing a liquid or gas on top of the device.

· No direct sunlight shall be kept at the proper temperature and humidity. The environmental parameters suitable for storage and use are as follows:

Ambient temperature: 5 to 40 °C (41 to 104 °F)

Humidity: 35% to 85%

Pressure: 7,00hPa to 1,060 hPa

Environmental temperature for storage and transportation: -30°C to 70 °C

Humidity: 10 to 100% (no condensation phenomenon)

2.4 Safety precaution

The equipment is developed and tested in accordance with domestic and international safety standards and regulations, With high stability and safety and effectiveness. To ensure that users use the device correctly and safely, please read this manual carefully. For more information, please contact our customer service department or our authorized representative.

2.4.1 Safety precautions

Warning

- **Do not open the lid of the processing grinding wheel when rotating.**
- **Before processing, always check with the naked eye for the possibility of fragmentation or rupture.**
- **Do not use the edge mill for purposes other than those intended.**

Shanghai Chang'e Optical Instrument Technology Co., Ltd. does not assume any responsibility for any accident or failure caused by improper use. Please visually inspect the appearance of the equipment to ensure normal operation before each use.

1) Do not open and touch the inside of the instrument, otherwise it will cause electric shock or instrument failure.

2) Do not exert too much when pressing the button to avoid damaging the touch screen or button.

3) Ensure that the specified supply voltage is used. If the voltage is too high or too low, the instrument will not be used normally, resulting in the risk of instrument damage or electric shock.

4) If the metal core is exposed in the power line, a new power line should be replaced immediately to avoid electric shock or fire.

5) If the instrument smoke or odor and other abnormal conditions, should immediately turn off the instrument, cut off the power supply. It can be used before professional technical personnel check maintenance and confirm troubleshooting.

6) To prevent a possible temperature increase inside the mill, resulting in equipment failure.**Do not block the cooling fan on the top of the edge mill. Please keep a spacing above 10cm.**

2.4.2 Notes required before use

1) Please confirm that the correct processed lens material is selected to prevent lens breakage and extend the service life of the processed grinding wheel.

2) Please use the modified rod consistent with the machining grinding wheel type correctly to avoid damage to the grinding wheel and affect the machining accuracy.

3) Do not modify the resin and PC coarse grinding wheel.

4) Do not touch the display with other objects other than your fingers.

2.4.3 Notes after use

1) After the machine is used, please clean the grinding powder in time (if using the circulating cooling water, please replace it in time), and then close the processing warehouse door after the cooling water evaporates;

2) Please add lubricating oil at the specified time and re-calibrate the parameters if necessary (such as replacing the grinding wheel and after moving);

3) If the instrument is not used for a long time, the power cord should be removed and cut off the power supply to prevent fire. After use, the power supply should be turned off to cover the dust cover, so as not to affect the service life and processing accuracy of the instrument.

2.4.4 Connection precautions

External equipment used to connect signal input, signal output or other connectors shall meet the relevant safety standards (e. g. IT equipment for medical electrical equipment and IEC60950 for the IEC60601-1 series). If in doubt, please contact the factory technician or your local dealer.

3.Parameter features

- 3.1 Dimensions: 700mm *580 mm* 750mm
- 3.2 Net Weight: 51 KG
- 3.3 Gross Weight:70KG
- 3.4 Input Voltage: AC220V 50Hz
- 3.5 Output Voltage: DC5V 4.6A、DC24V 4.6A
- 3.6 Power Consumption: 1KW
- 3.7 Display : 10.4-inch color TFT LCD touch screen with angle adjustable
- 3.8 Maximum number of effectively stored images: 1000pcs
- 3.9 Maximum Cutting Diameter: 80mm
- 3.10 Minimum Beveling Size: 26mm
- 3.11 Minimum Flat Edging Size: 25mm
- 3.12 Maximum frame center distance: 100mm
- 3.13 Tip Edge Position: Stepless adjustment (20% - 80%)
- 3.14 Diameter of Diamond wheels group: 100mm*3
- 3.15 The host has graphic editable and scalable functions

4.Precautions for use

4.1 Check before use

- 1) Whether the power supply is switched on.
- 2) Whether the opening interface can be displayed correctly.
- 3) Check the processing wheel for fragmentation or rupture.

4.2 Check after use

- 1) Whether the power supply is turned off state.

- 2) Whether to complete the cleaning of the processing warehouse and the circulating water replacement.
- 3) Whether the auxiliary accessories are cleaned and stored properly.

5. Equipment installation and preparation work

5.1 Equipment installation

5.1.1 Remove the equipment from the packing box and remove the bag, desiccant, and transportation positioning. Place on a stable workbench (workbench requirements as shown in Figure 5.1.1).

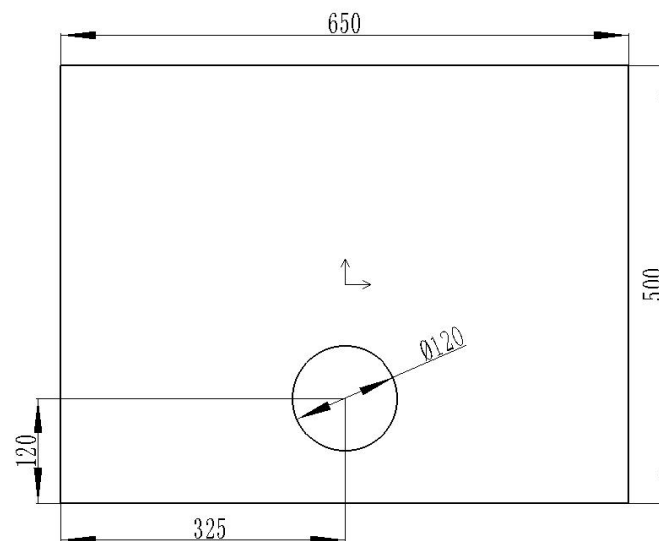


Figure 5.1.1(a)

- 5.1.2 Please confirm that the local power supply voltage matches the nominal voltage of the equipment. After checking that the power switch of the equipment is off, insert the power cord into the bottom socket of the equipment and the power plug into the AC socket.
- 5.1.3 Please connect the host with the scanner center locator with a dedicated RS232 interface connector.
- 5.1.4 Please connect the cooling water system (please connect the water pump to the back socket for the circulating water; match the external water)
- 5.1.5 For the equipment and personal safety, always use the power supply and replace the fuse according to the label requirements.

5.2 Preparation

5.2.1 Start

- 1) Check that the power cord is connected to the power connector and the wall socket.
- 2) Turn on electricity.

Place the power switch on the left side of the equipment in the (I) position, The interface as shown in Figure 5.2.1 (a) appears on the screen.



Figure 5.2.1(a)

After the system initialization, the interface shown in Figure 5.2.1 (b) appears on the screen.

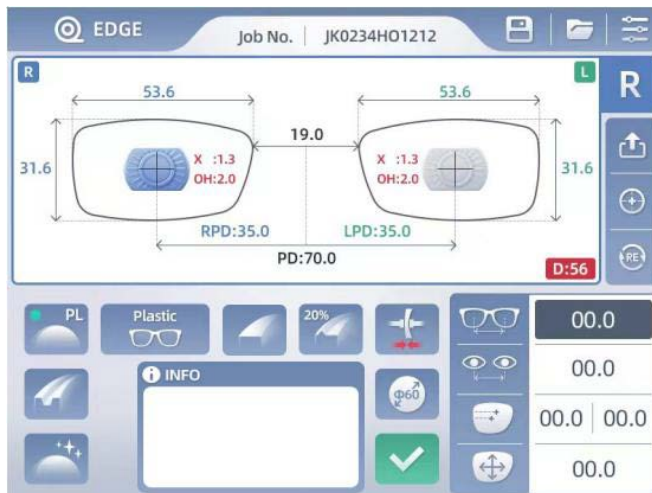


Figure 5.2.1 (b)

5.2.2 Shut down

Turn off the power supply after the use ends. Place the left power switch in the (O) position.

6.Function Introduction

6.1 Appearance structure

6.1.1 Front view



Figure 6.1.1

6.1.2 Back view

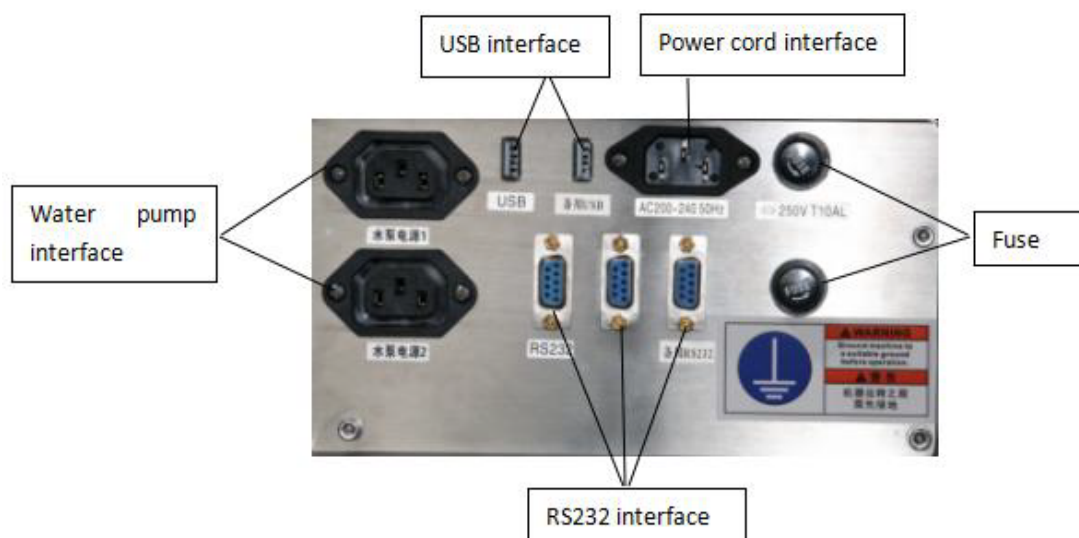


Figure 6.1.2

Tips:

1. The USB interface is used to upgrade the program.
2. The RS232 interface is used to transfer data from the scanned graph.
3. Fuse is used for overload protection during machine short circuit.

6.1.3 Processing warehouse diagram

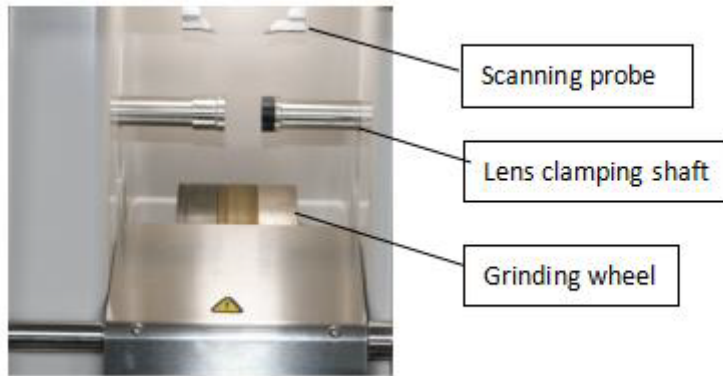


Figure 6.1.3

Tips: the grinding wheel is mainly divided into the following types, among which the difference between four piece type and three piece type edge grinding machine is whether there is no glass coarse grinding wheel.

- 1) Resin PC lens coarse grinding wheel
- 2) Fine grinding wheel and sharp edge grinding wheel
- 3) Glass coarse grinding wheel
- 4) Lenses polished sand wheel

6.1.4 Control panel diagram



Figure 6. 1. 4

6.2 Display menu

Figure 6.2 is the main interface of the grinding machine, which is used for parameter setting and processing before processing.

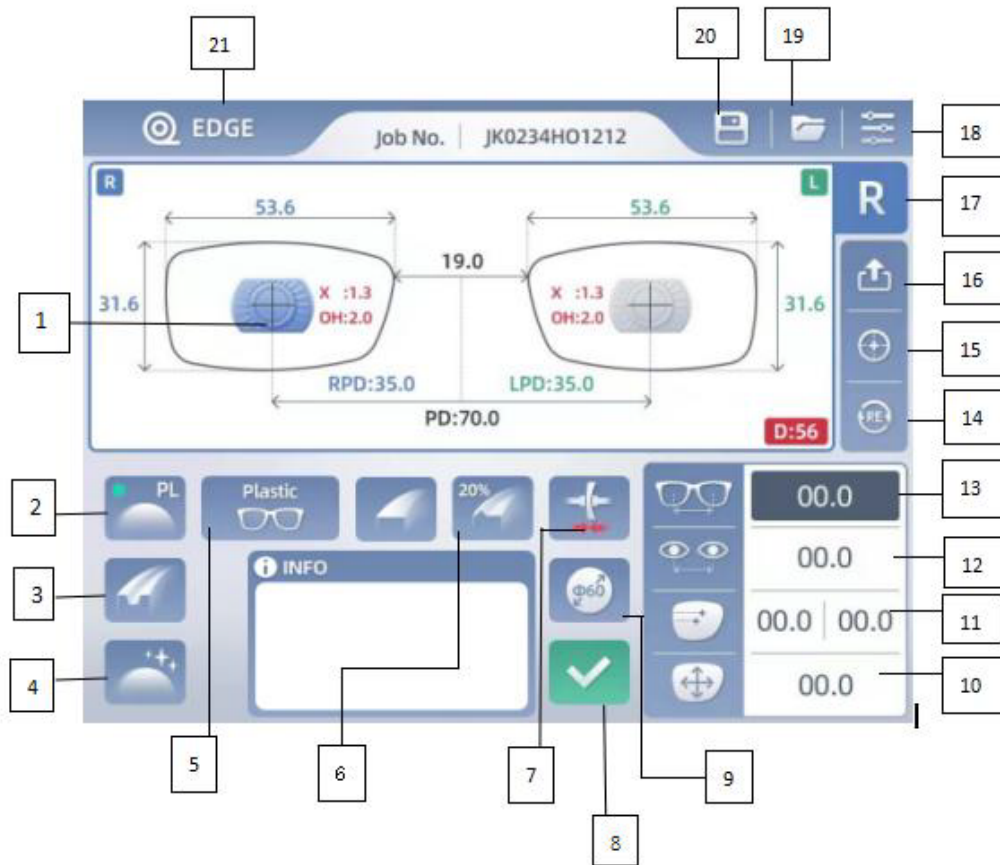


Figure 6.2

1. Display area of the parameters of the spectacle film

The left and right frames appear in actual size, and the red solid outline shows the designated side.

2. Material selection button

Click this button to display the specified lens material. The following table is the sub-menu of lens material:



PL	Resin lens
PC	Polycarbonate lenses
HI	High refractive index lens
GL	Glass lens

3. Edge selection button

Click this button to select the lens edge shape. Select pointed edge for full frame; flat edge for half frame and no frame.



4. Polishing selection button

Click this button to select polish or not polish.



5. Frame material selection button

Click this button to select the metal frame or plastic frame.



6. Point edge position selection button

Click this button, select the appropriate sharp edge position, click "+", "-" to adjust.

7. Lock / open the button

Click this button to clamp the lens for processing or open the mirror shaft to take out the lens.



8. Start button

Click this button to start grinding the glasses piece. After the grinding starts, this button automatically switches to the emergency stop button. Click the emergency stop button to stop the grinding.



9. Lens diameter selection button

Click this button to adjust the diameter of the lens before grinding.



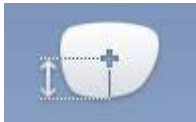
10. Size correction button

Click this button to adjust the size of the processed eye piece, and the modified parameters of the eyeglasses are displayed in the display area.



11. Pupil height adjustment button

Pupil high score geometric center pupil height and lens edge pupil height, click the pupil high button to switch. Click the corresponding data box on the right to manually input the pupil height value to be set, and synchronously present in the parameter display area of the glasses.



12. Total pupil distance/half pupil distance adjustment button

Click this key to switch between the total pupil distance and the single pupil distance. Click the corresponding data box on the right to manually input the pupil distance value to be set and synchronously display it in the parameter display area of the glasses.



13. Frame center distance/nose bridge distance adjustment button

Click this button to switch between the frame center distance and the nose bridge distance. Click the corresponding data box on the right to manually enter the value of the frame distance or nasal distance to be set, and synchronously display it in the parameter display area of the glasses.





14. Revise button

Click this button to realize the grinding again without the displacement of the suction cup.(Note: the correction value can only be negative)



15. Positioning mode selection button

Click this button to select the geometric center positioning or the optical center positioning. The geometric center positioning is the center of the model and the optical center positioning is the center of the lens.

	Optical center positioning
	Geometry center positioning

16. Data transfer button

Transfer the scanned graphics data to the edge grinder.



17. Left and right lens switch button

Click this button, you can choose to process the left glasses piece or process the right glasses piece.



18. Menu button

Click this button to display the menu interface.



19. The file opens the button

Click this key to open the stored graphics file in the grinding machine.



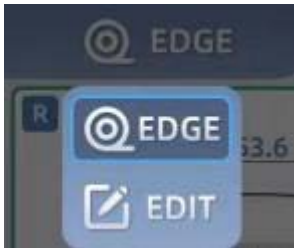
20. Save button

Click this button to store the current lens shapes and parameters in the display area for later use.



21. Interface selection button

Click this button to select the current display interface.



7.Operation process

7.1 Preparation stage

7.1.1 Data transmission

First, put the liner pattern on the Blocker+Scanner for scanning (see the scanner manual for specific operation steps), and the scanning data is confirmed and transmitted to the grinding machine.(Figure 7.1.1 (a) and (b) are the main interface before and after data transmission respectively)

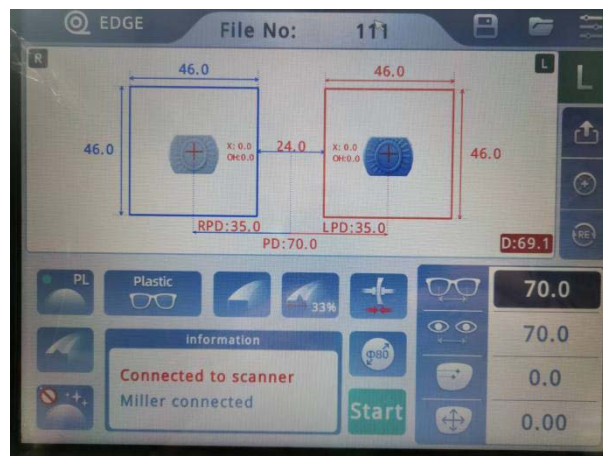


Figure 7. 1. 1 (a)

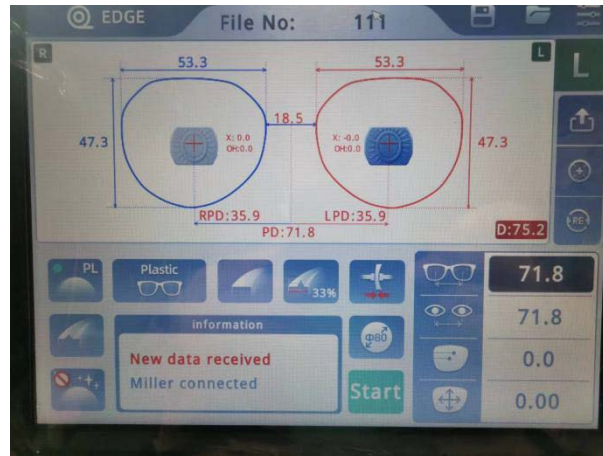
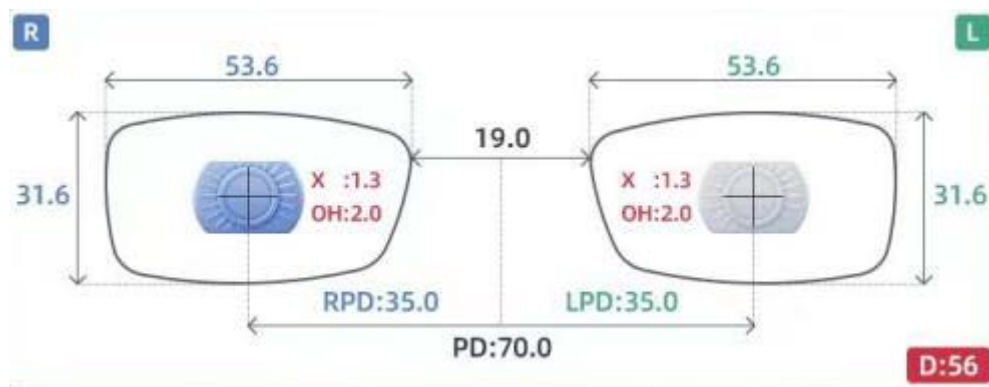


Figure 7. 1. 1 (b)

7.1.2 Set up

1) Switch left and right

Before grinding, you can choose to grind the left or right lens by clicking the left and right switch keys. As shown in the figure below, the border is red on the side to be polished.



2) Selection of frame material

Click the frame material selection button to select the frame material to be processed (different materials have different compensation coefficient).

3) Lens material selection

Click the lens material selection button, and the drop-down menu will appear on the screen. Click to select the lens material required to be processed.(Note: repeatedly confirm whether the selected material is correct, misselection may cause damage to the grinding wheel or lens.)

4) Edge selection

Click the edge selection button, the screen will appear the drop-down menu, click to select the desired edge type (some models have no slot function, the button is gray, not optional). If you choose the processed sharp edge lens, click the sharp edge position button and select the different

front and rear positions of the sharp edge (which can be adjusted according to the lens thickness and personal preference).

5) Polishing choice

Click the polishing selection button to select whether to polish the lens.◦

6) Diameter selection

Click the lens diameter button, the pull-down menu to select the lens diameter will appear, and select the lens diameter matching with the processed lens data.

7) Frcore / nasal bridge data settings

Click the frame distance button and click the data box on the right to manually enter the appropriate distance value and click the icon to switch the frame center distance to nose bridge. Similarly, click the data box on the right to manually enter the appropriate distance value.(Note: After clicking the data box, the numeric keyboard will appear to input the required data. If the input error is found, click the C key to clear the wrong data and re-input it.)

8) Pupil setting

Click the pupil distance setting button, and the total pupil distance and single pupil distance icon appear on the screen. The appropriate pupil distance value can be entered according to the optometry prescription sheet request.

9) Pupil height setting

Click the pupil high setting button, and the two pupil high setting method icon appear on the screen, namely geometric center pupil high input method and lens edge pupil high input method. Select the appropriate way to enter the pupil height data according to the optometry prescription form requirements.

10) Selection of the lens positioning mode

Positioning mode can choose the optical center positioning mode or geometric center positioning mode. When selecting the optical center positioning mode, the Blocker+Scanner is

located in the optical center of the lens, When selecting the geometric center positioning mode, the Blocker+Scanner should be moderately offset positioning.

7.2 Grinding stage

7.2.1 Machining

Put in the lens and click the lens axis clamp key to clamp the lens, then click the start key to start processing, and simultaneously display the steps in progress in the information bar on the display screen.

After the information bar display processing is completed, click the lens shaft open key (either available on the display screen or on the control panel) to open the lens shaft, and remove the processed lens after the lens shaft is fully opened. Then click the left and right switch buttons and repeat the above operation.

7.2.2 Revise

If the finished eyeglasses are slightly larger than the size of the glasses frame, you need to correct the size. Click the size correction button, enter the appropriate data, put the glasses that need to be repaired and click the revise button.

Note: After the removal of the fixed suction cup or the size correction cannot be made after the position of the fixed suction cup is changed. It is recommended to assemble the polished glasses to the glasses frame and confirm that the size of the fixed suction cup is appropriate.

7.3 Edit

Figure 7.3 shows the editing interface of the edging machine, where you can zoom in and out the size of the figure, rotate the axis, and other operations. Click the interface selection button at the upper left corner of the main screen to switch to the editing interface.

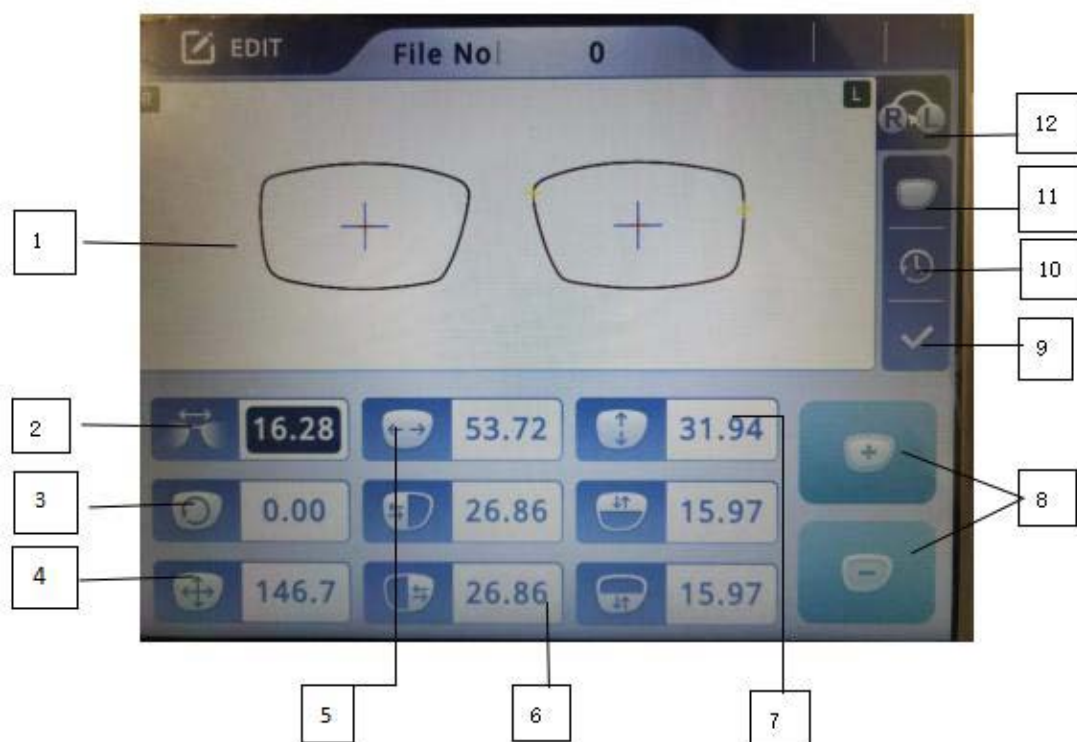


Figure 7.3

1. Graphic display area

The left and right frames appear in actual size, and the red solid outline shows the designated side.

2. Nose bridge distance adjustment button

The data box on the right side of this button shows the size of the nose bridge. After selecting the nose bridge button, click the increase button or reduce the button to adjust the size of the nose bridge, the same below.



3. Axis position adjustment button

Click this button to correct the astigmatism axis of the scanning pattern.



4. Overall zoom button

Click this button to increase or reduce the overall size of the designated side figure.



5. Horizontal retraction button

Click this button to increase or reduce the size level of the specified side drawing, and the vertical direction size remains the same.



6. Local zoom button

Click this button to increase the size or size of the specified side shape.

	Left zoom button
	Right zoom button
	Upper zoom button
	Lower zoom button

Note: Taking the horizontal and vertical lines of the cross quasi star as the dividing line, the designated side graph is divided into four parts: upper, lower, left and right.

7. Vertical zoom button

Click this button to increase or reduce the vertical dimension of the specified side drawing.



8. Increase/decrease button

After selecting the parameter value to be modified, click the increase/decrease button to adjust the parameter value.



9. Confirm key

Click this button, the currently edited data will be saved, if you want to modify, you need to re-edit.



10. Return to original graphic button

Click this key to cancel all the above steps, restore all parameters to the initial value, and use them with caution.



11. Comparison button

In the process of adjusting the parameters, the solid frame of the original graphics is black, and the solid frame of the parameters is red. Rereflect the changes of the graphics when adjusting different parameters through comparison. Click this button to cancel the comparison display.



12. Left and right side switch button

Click this button to edit the left or right of the drawing.



8.Replacement and maintenance of spare parts

It is recommended to extend the life of the equipment under normal conditions. Check the equipment performance and the complete machine maintenance regularly. If necessary, please contact Shanghai Chang'e Optical Instrument Technology Co., Ltd. or the local authorized

distributor.

8.1 Trim and replace the grinding wheel

8.1.1 Trimming wheel

When the processing grinding wheel appears passivation, the processing time will become longer and the processing accuracy will decrease. Please repair the grinding wheel in time. Please be sure to choose suitable for grinding wheel type (glass coarse grinding wheel 180 #, fine grinding wheel 240 #).

1) Repair preparation

First immerse the oil stone in water for about five minutes, click the menu button, and the display screen displays the interface as shown in Figure 8.1.1 (a);



Figure 8. 1. 1 (a)

Click and enter the component detection interface, as shown in Figure 8.1.1 (b);

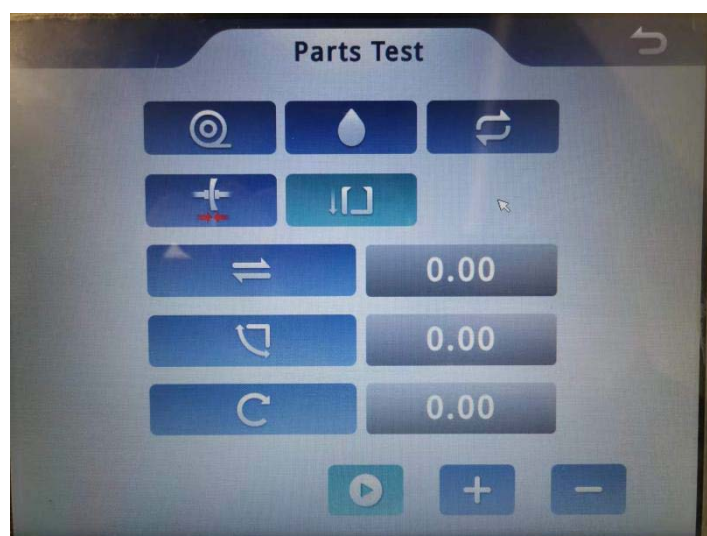











Figure 8.1.1 (b)

2) Wheel trim (coarse and fine grinding only for glass lenses)

Press the pump button, the cooling water passes, and the grinding wheel begins to rotate. Hold one end of the soaked oil stone with both hands, and the plane surface acts evenly on the surface of the glass coarse grinding wheel or the surface of the fine grinding wheel (with the edges and corners of the fine grinding groove), gradually increase the pressure and keep contact for five seconds to remove the oil stone. After the cooling water rinses off the grinding slag, repeat the above operation method two to three times. Press the key to cut off the cooling water.

	Start / stop the main mill wheel
	Start / stop the water pump in operation
	system reset
	The lens clamps the movement
	Start the encoder count
	Horizontal movement distance setting
	The swing arm swing angle movement distance is set
	Set the lens rotation angle
	Start button

Matters needing attention:

- 1) Do not fine-grind the PC / resin lens with a coarse grinding wheel;
- 2) During cleaning, the grinding wheel is operated when the processing warehouse door is opened, please pay attention to safety;
- 3) Steam and particulate matter produced during dressing are harmful, please wear protective masks, protective goggles and other appliances to prevent inhalation;
- 4) People with sensitive skin should wear protective gloves to prevent allergies;
- 5) If you contact your eyes, rinse your eyes with running water immediately and go to medical attention.

8.1.2 Replace grinding wheel

The grinding wheel must be replaced every two years or every 5000 lenses (10,000 plastic

lenses) and the number of lenses mentioned in this manual is for reference only. Such as continuous processing of hard lens, height number negative lens or improper operation (such as using PC / resin coarse grinding wheel processing glass lens) may need to replace the grinding wheel in advance.

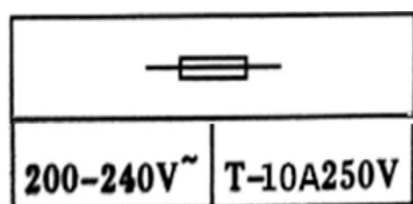
This equipment can only be replaced with the accessories provided by Shanghai Chang'e Optical Instrument Technology Co., Ltd. If the customer uses other accessories, they shall be used only after the availability of technical safety is confirmed and confirmed by Shanghai Chang'e Optical Instrument Technology Co., Ltd. or the accessory manufacturer.

8.1.3 Parameter adjustment

The placement of the grinding wheel will affect the size of the processed lens and requires parameter calibration to enable the machine to work properly. For details, please contact the local authorized dealer or the after-sales department of Shanghai Chang'e Optical Instrument Technology Co., Ltd.

8.2 Replace the fuse

- 1) When replacing the fuse, the power plug must be unplugged to ensure that the power supply is disconnected to prevent electric shock danger.
- 2) The replaced fuse must be replaced with the same type and fuse rating, otherwise fire.
- 3) In case of failure of the instrument, it needs to be disassembled for maintenance, must be familiar with the instrument circuit professional technical personnel to complete, or contact the local dealer or manufacturer to complete, the manufacturer is not responsible for the consequences of disassembly and maintenance.



Warning: Be careful of fire!

Please replace the fuse

according to the indicated value

8.3 Cleaning equipment

8.3.1 Turn off the power switch and unplug the power cable before cleaning the equipment.


8.3.2 Pay attention not to force, the curvature scan head force damage will significantly reduce the accuracy and reliability of measurement.

8.3.3 Do not wipe the shell of the instrument with strong volatile substances, thinner, benzene

and other solvents, so as not to damage the appearance of the instrument.

8.3.4 Please wipe the stubborn stains with a soft cloth soaked with soapy water, and then wipe them clean with a dry cloth.

8.4 Project menu setting




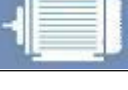
 **Note: Improper menu setting will cause machine failure and machining accuracy, please operate carefully or ask special personnel to operate.**

8.4.1 Menu Settings

Click the menu button, as shown in Figure 8.1.1 (a). The functions of each option are shown as follows below:

Time setting	Set the time
History query	View the historical processing records
The reset parameters	Calibration of reset parameters
Parts detection	Check that the machine is working properly
Detection parameters	Calibration of detection parameters
Processing parameters	Calibration of processing parameters
Correcting parameters	Calibrate the correction parameters
Manual operation	Check the function of parts
Reserve parameters	Set the residual parameter
Other settings	System Settings

The system setting functions are shown in the following table:

	Interface brightness adjustment
	Button volume switch
	Screen brightness adjustment
	Speed adjustment of the main grinding wheel
Screen calibration	Local screen calibration button

Remote Screen Calibration	Used for screen calibration on the starting connected lens imaging scanning system
Language	For the switching of the interface display languages
Restore the factory parameter settings	Factory parameter settings used for the system parameters

9. Diagnosis and handling of common problems

When the equipment has the following operation abnormality, please follow the table below

	Problems	Reasons and solutions
1	The power supply indicator light is not on	Q1:Fuse damage A1:Change the fuse Q2:non-transformer A2:Plug in the power cord and turn it on
2	No cooling water	Q1: The cooling water water pump plug is not connected A1:Reconnect the plug Q2: The water valve is closed A2:Open the water valve
3	Can't enter the opening interface	Waiting for self-inspection to be completed
3	Slow grinding speed	Trim or replace the grinding wheel
4	The noise is big	Replace the spindle
5	Grinding wheel does not work	Replace the belt
7	The baffle is leaking	Confirm that the baffle is not broken or leaking. If problematic, replace the baffle.
8	Inside the machine	Confirm that there is no processing waste flying inside the mill. If any, please clean the edge mill inside.
9	Water supply and drainage pipe (including the water supply pipe in the grinding machine)	Visual and tactile inspection will confirm that the water and drain are not cracked, aging, or blocked. If there is a problem, please replace it.

10.2 Random attachment table

Order Number	Name	Specifications	Quantity	Explain
1	3D Patternless Edger	PLE-6800	1	
2	Power cord	10A/250V	1	
3	instruction manual		1	
4	warranty card		1	
5	Product certificate		1	
6	sucker		6	
7	Suction cup pliers		1	
8	Fuse	10A/250V	2	
9	Water inlet pipe		1	
10	Drain-pipe		1	
11	Water pump		1	
12	water tank		1	
13	Hexagon wrench		1	
14	Cross screwdriver		1	
15	Oilstone		2	
16	Calibration block		1	
17	RS232 data cable		1	
18	Test lens		10	
19	Adhesive sheet		20	
20	filter screen		1	

PLE-680

The operating instruction of The Blocker+Scanner



Please read this instruction before using the instrument to avoid damage or injury; please keep this manual for review.

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1. Summary

1.1 Brief introduction

The PLE-680 Blocker+Scanner is a precision instrument with dual far heart light road design, combined with accurate image analysis and processing technology, which can quickly and conveniently scan the frame lining plate graphics and accurate positioning. The instrument is mainly used for taking photos and scanning the edges of all kinds (full frame, half frame) of frames, and can be image editing, lens optical center positioning and other functions, and can be used through the RS232 data interface and the grinding machine host.

1.2 Equipment type and protection classification

1.2.1 Product grade: Level 2

1.2.2 Electrical shock: Class I (ground)

1.2.3 Electrical shock protection grade: Class B

1.2.4 Waterproof grade: ordinary

1.2.5 Safe environment: not suitable for use in flammable, explosive and dust environment

1.2.6 Operation mode: continuous









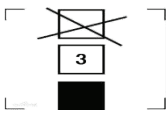

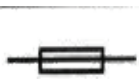
2. Security information

2.1 Brief introduction

Safety is everyone's responsibility. The safe use of this device mainly depends mainly on the installer, user, operator, and maintainer. Personnel must learn and become familiar with this manual before attempting to install, clean, repair or adjust this equipment and any related accessories. The instructions contained in this manual should be fully understood and followed to enhance the safety of users and operators. Therefore, the following safety notices are appropriately placed in the body of this manual to highlight safety-related information that requires special emphasis. All users, operators and maintainers must be familiar with and pay special attention to all warnings and reminders contained herein.

2.2 Safety sign

The International Electrotechnical Commission (IEC) has established a set of symbols for medical and other electronic devices to classify or warn of any potential hazards. The classification and notation are shown below.

	<p>Power switch</p>
	<p>Safety warning</p>
	<p>Date of manufacture</p>
	<p>Manufacturer</p>
	<p>Handle with care</p>
	<p>Safety ground</p>
	<p>Temperature limitation</p>
	<p>Save dry</p>
	<p>Reuse code three layers</p>
	<p>Waste treatment</p>
	<p>Fuse</p>

2.3 Environmental factors

2.3.1 The equipment shall not be used in environments with flammable, explosive or volatile solvents such as alcohol, benzene or similar chemicals, which can have adverse effects on the instrument; the instrument is only suitable for indoor use.

2.3.2 This equipment shall not be used in too hot or dusty environment. The machine should not be exposed to water splashing, dripping, or spray. Do not place containers containing a liquid or gas on top of the device.

2.3.3 There shall not be direct sunlight and proper temperature and humidity. The environmental parameters suitable for storage and use are as follows:

- 1) Temperature: (10~40) °C (use temperature);
(-5~50) °C (storage / transport temperature)
- 2) Humidity: (30~75)% (using humidity);
- 3) (25~95)% (Storage / Transport Humidity)
- 3) Atmospheric pressure strength: (700~1060) hPa
- 4) Elevation: (0~ 2000) m

2.4 Safety precaution

The equipment is developed and tested in accordance with domestic and international safety standards and regulations, with high stability, safety and effectiveness. To ensure that users use the device correctly and safely, please read this manual carefully. For more information, please contact our customer service department or our authorized representative.

2.4.1 Safety precautions

Please visually inspect the appearance of the equipment to ensure normal operation before each use.

- 1) Do not open and touch the inside of the instrument, otherwise it will cause electric shock or instrument failure.
- 2) Do not push too hard to damage the touch screen or button.
- 3) Ensure that the specified supply voltage is used. If the voltage is too high or too low, the instrument will not be used normally, resulting in the risk of instrument damage or electric shock.
- 4) If the metal core is exposed in the power line, a new power line should be replaced immediately to avoid electric shock or fire.

5) If the instrument smoke or odor and other abnormal conditions, should immediately turn off the instrument, cut off the power supply. It can be used before professional technical personnel check maintenance and confirm troubleshooting.

2.4.2 Move the notes

When moving the instrument, do not grasp the display position to lift the whole instrument, and you should support the lower part of the instrument to prevent damage to the instrument.

2.4.3 Notes after use

If the instrument is not used for a long time, the power cord should be removed and cut off the power supply to prevent fire. After use, turn off the power supply and cover the dust cover. So as not to affect the service life and measuring accuracy of the instrument.

2.4.4 Connection precautions

External equipment used to connect signal input, signal output or other connectors shall meet the relevant safety standards (e. g. IEC60950 of IEC60601-1 series). If in doubt, please contact the factory technician or your local dealer.

3.Parameter features

- 3.1 Using a dual telecentric optical imaging system
- 3.2 Display screen: 8-inch high-definition true color LCD touch screen
- 3.3 Scanning time: <3S
- 3.4 Scanning Precision: 0.1mm
- 3.5 Power Source: AC100-240v 50/60HZ
- 3.6 Net Weight: 11KG
- 3.7 Gross Weight: 12KG
- 3.8 Outline Dimension: 430 * 340 * 590mm
- 3.9 Electric Motor: DC12V

4.Precautions for use

- 4.1 When operating the equipment, please do not force too hard, do not hit or drop the instrument. The instrument may be damaged by a strong impact. The effects may compromise the functionality and accuracy of the instrument.
- 4.2 Measurement accuracy is affected when the machine is exposed to direct sunlight or when the indoor light is too bright.
- 4.3 If you want to use it as a connecting device to other devices, please follow the local dealer's instructions.

4.4 Sudden heating in the room in a cold area will result in condensation of water vapor on the protective glass on optical components inside the measuring window and the instrument. In this case, wait until the condensation disappears before performing the measurement.

4.5 Please keep the measuring lens clean. Dust can cause the machine to make errors or affect the measurement accuracy.

4.6 Please do not clean the surface of the equipment with organic solvents such as alcohol, thinner, benzene, etc.

5. Equipment installation and measurement preparation

5.1 Remove the equipment from the packing box and remove the packing bag and desiccant. Place it on a solid desktop.

5.2 Please confirm that the local power supply voltage matches the nominal voltage of the equipment. After checking that the power switch of the equipment is off, insert the power cord into the bottom socket of the equipment and the power plug into the AC socket.

5.3 With RS232, connect the PLE-6800 and PLE-680 interface.

5.4 The device will automatically run the power saving function within the specified time, and press any key to return to the measurement mode.

5.5 To notice the user, have a label on the bottom of the instrument. Please use the power supply and replace the fuse.

6. Appearance introduction

6.1 The front structure

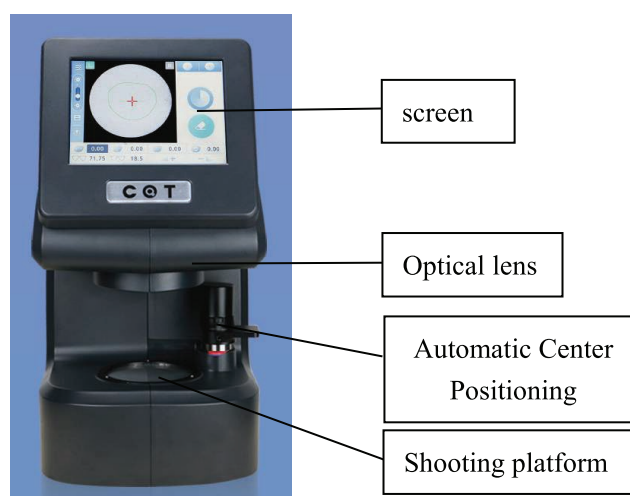


Figure 1

6.2 The back structure

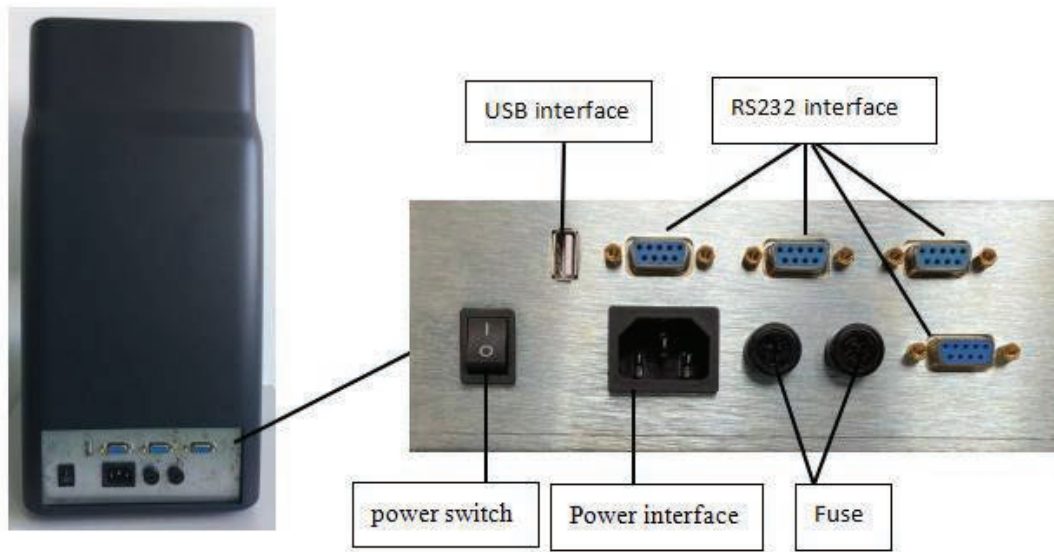


Figure 2

7.Function Introduction

7.1 Graphic shooting

7.1.1 Introduction to function buttons

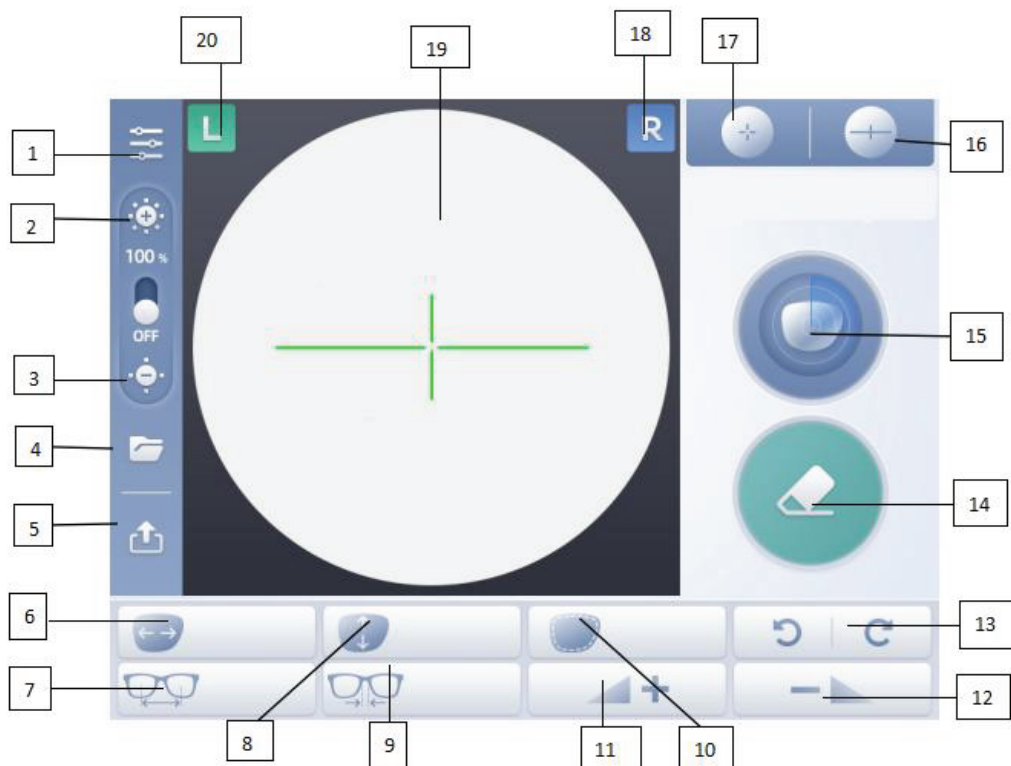






















Figure 3

Tip: When the key is gray, this feature is currently unavailable.

Icon serial number	Icon	Function introduction
1		Menu button :Press this button to enter the Settings menu interface
2		Brightness adjustment button: press this button to light brightness
3		Brightness adjustment button: press this button light to reduce brightness
4		Save button: Press this button to save the scanned drawing to the drawing library
5		Data Transfer button: Press this button to transfer the scanned graphic data to the Patternless Edger
6		Horizontal Scale button: press this button to adjust the horizontal dimension of the scan drawing
7		Pupil distance adjustment button: press this button to adjust the pupil distance value
8		Vertical zoom button: Press this button to adjust the vertical dimension of the scan drawing
9		Nose bridge distance adjustment button: press this button to adjust the nose bridge distance size
10		Press the whole zoom button to adjust the overall size of the scan figure
11		Add button: After selecting the icon 6-10 and 13, press the add key to increase the parameter value
12		Reduce the button: After selecting the icon 6-10 and 13, press the reduce key to reduce the parameter value
13		Graph rotation button: press this button to scan the graph rotation operation
14		Clear button: Press this button to clear the graphic data displayed on the main interface
15		Scan key: Press this button to scan the liner drawing
16		Double-chip editing button: Press this button to enter the double-chip editing interface
17		Center positioning button: press this button to switch to the light center adjustment positioning interface
18		Right select: Press this button to switch to the right liner shooting state
19		Scan for the graphical display area
20		Left selection: press this button to switch to the left liner state

7.1.2 Operating steps

1. After opening the scanner, please empty the shooting platform before shooting, Click the scan button, as shown in Figure Figure 4.

2. As shown in Figure 5, if no abnormal figure appears in the scanning figure display area, press the YES key to enter the liner for shooting; if there is an abnormal figure in the scanning figure display area, press the NO key to return to the previous step.

Tips:

1) **Make sure there is no stain on the lens liner surface before shooting, otherwise it will affect the lens scanning accuracy!**

2) **The light source brightness should be kept below 20, beyond this range, which will affect the lens scanning accuracy!**

3) **High brightness of the light source will damage the light source lamp, please keep the light source lamp brightness below 20!**



Figure 4

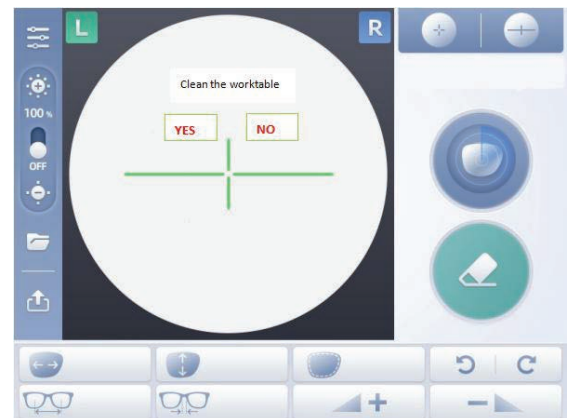


Figure 5

3. Place the liner or template to be taken on the shooting platform and try to keep the image at the center level of the screen cross, as shown in Figure

6.

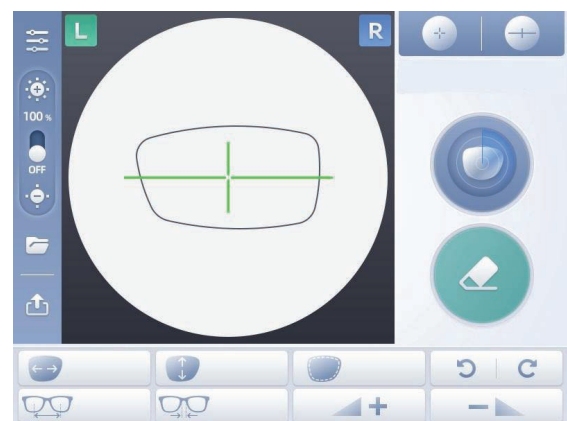


Figure 6

3. Press the Scan key to start the data collection.
4. When the lens liner pattern is collected, the screen automatically pop out the nose distance input window, as shown in Figure 7. Please enter the nose value and press to confirm. If you need to change the data again, press the nose and distance adjustment key "+" and "-".

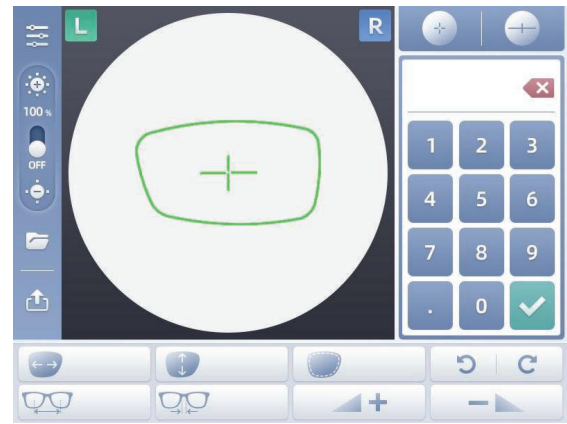


Figure 7

5. After the nasal distance value input, the system will automatically jump to Fig. 8. Remove the liner lens and complete the shooting.

Tips: If the current drawing error, please press the clear key and repeat the above process.



Figure 8

7.2 Center finding

7.2.1 Introduction to function buttons

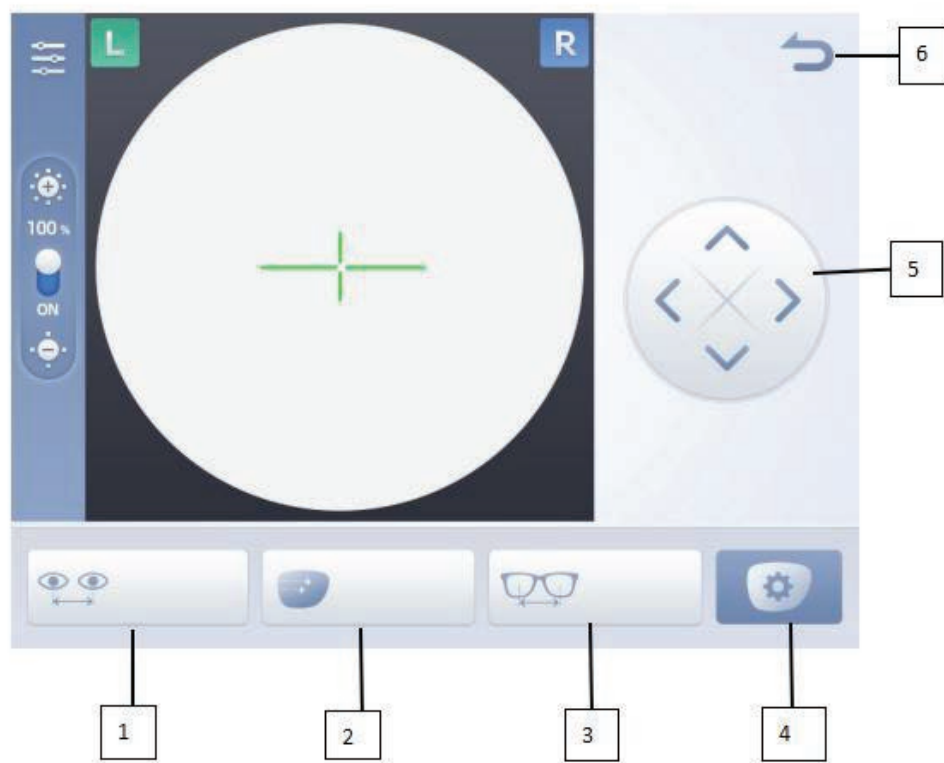


Figure 9

Icon serial number	Icon	Function introduction
1		Pupil distance adjustment button : press this button, and then press the setting button to enter the pupil distance value
2		Pupil height adjustment button: press this button, and then press the setting button to enter the pupil height value
3		Box distance adjustment button: press this button, and then press the setting button to enter the frame distance value
4		Setting button: press this button to pop up the number keyboard, you can enter the value
5		Position adjustment button: press the upper, lower, left and right four direction buttons to move the display area in the corresponding direction
6		Return to the button: Press this button to return to the main interface

7.2.2 Operating steps

1. Press the center positioning button in the main interface (FIG. 3 button 17) to enter the light center adjustment and positioning interface

2. Press the pupil distance adjustment key and then press the setting key, the number keyboard will pop up, input the pupil distance value, pupil height and frame center distance value input operation is the same as above. You can also use the right cross keyboard to offset the light center cross mark. As shown in Figure 10 on the right

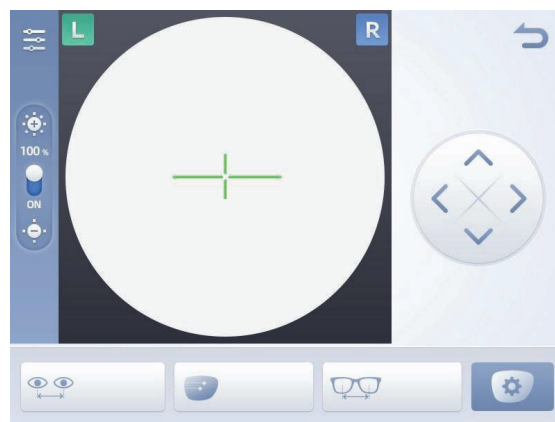


Figure 10

3. As shown in Figure 11, after flipping the suction cup installation head, place the suction cup with adhesive sheet on the suction cup installation head and flip the suction cup installation head according to the right figure.



Figure 11

4. First, gently push the rocker arm structure to the right, and the rocker arm structure will operate. Confirm the center position of the suction cup according to the image displayed on the display screen. Then place the punched lens on the lens bracket and adjust the center position of the lens appropriately to ensure that the suction cup adheres to the appropriate position of the lens during automatic centering.

Attention: During the process of automatic center positioning and resetting , do not collide with the rocker arm to prevent manual and automatic conflicts, which may cause the rocker arm to get stuck.If the rocker arm is stuck, please restart this machine.



Figure 12

5. After gluing the lens, press the positioning bolt to remove the lens after the rocker arm is reset.



Figure 13

6. Press the right button and left button to switch to the other side and repeat the above steps to complete the lens positioning

7.3 Graphics edition

If you want to edit the graph after shooting, you can edit it in the menu interface and enter the graph editing interface.

7.3.1 Icon / function button description

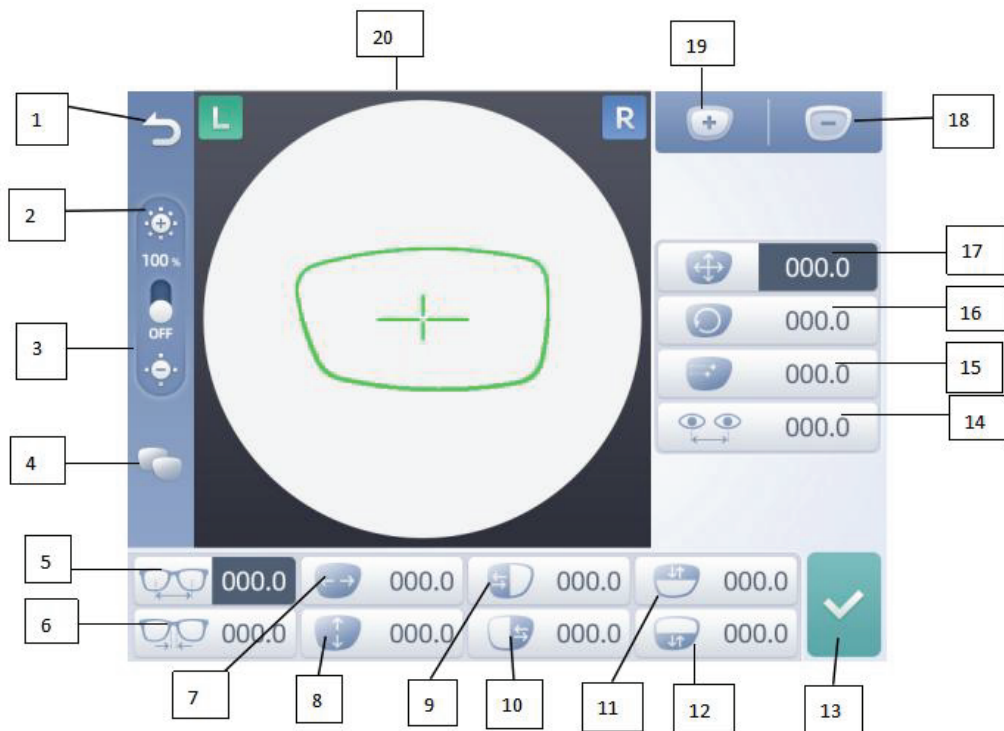






















Figure 14

Tip: The editing function suggests the personnel with certain professional assembly knowledge to operate.

Icon serial number	Icon	Function introduction
1		Return to the key: Press this key to return to the previous interface
2		Increase the brightness button: press this button to increase the brightness of the scanning light source
3		Brightness reduction button: press this button to reduce the brightness of the scanning light source
4		Double-chip edit button: press this button to switch to the two-chip edit
5		Center distance button: press the increase key or reduce the key to adjust the size of the center distance
6		Nasal bridge button: press this button to press the increase key or decrease key to adjust the size of the nose bridge
7		Width adjustment button: press this key to press the increase key or decrease key to adjust the width of the editing figure
8		Height adjustment key: press this key to press the increase key or decrease key to adjust the editing drawing height
9		Left width button: press this key to press the increase key or decrease key to adjust the left width of the editing drawing
10		Right width button: press this key to press the increase key or reduce the key to adjust the right width of the editing figure
11		Upper height button: press this key to press the increase key or decrease key to adjust the height of the editing figure
12		Lower height button: press this key to press the increase key or decrease key to adjust the lower height of the editing
13		OK button: Press this key to confirm and save the edited content
14		Pupil distance button: press this key to press the increase key or decrease key to adjust the size of the edit figure
15		Pupil high button: press this key and then press the increase key or decrease key to adjust the size of the edit figure
16		Rotate angle button: press this key or press the increase key to adjust the rotation figure of editing shape
17		Overall zoom button: press this button and then press the increase key or decrease key to adjust the overall size of the
18		Reduce the button: press the selected keys 5-12 and 14-17, and then press the reduce key to reduce the parameter value
19		Increase button: press select button 5-12,14-17, press increase key to increase the parameter value
20		Graphic display area

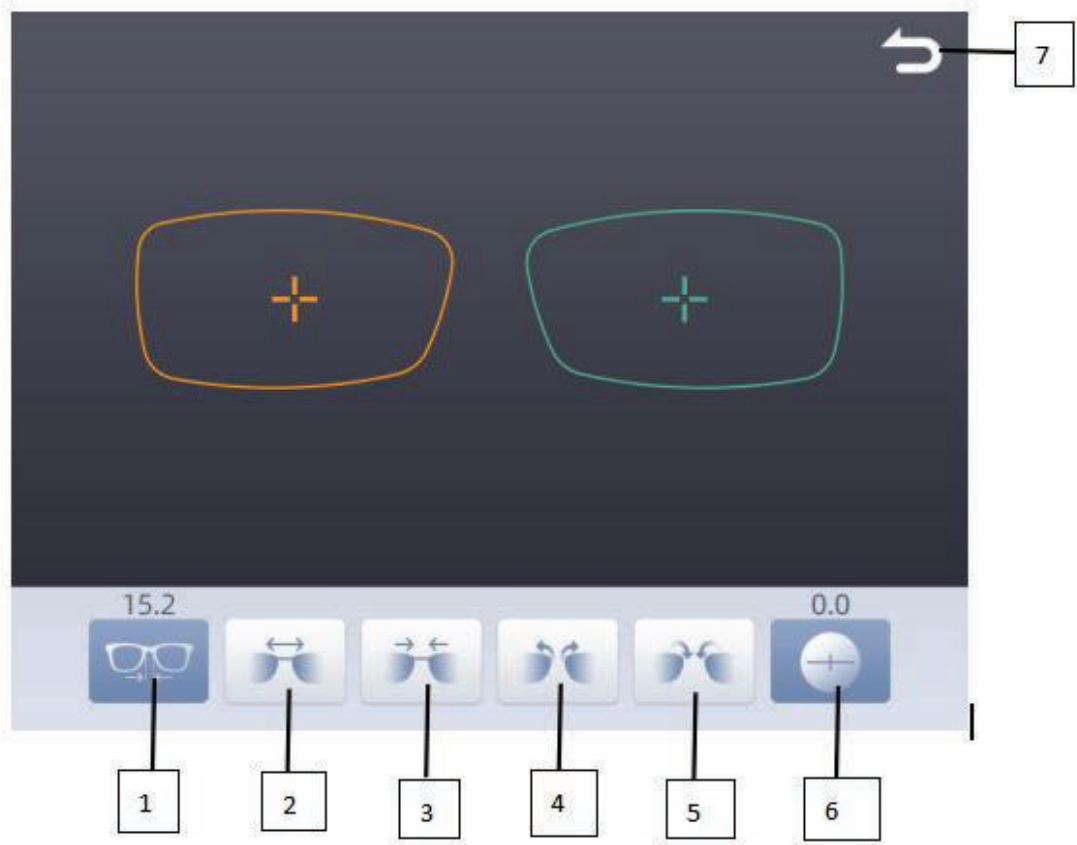







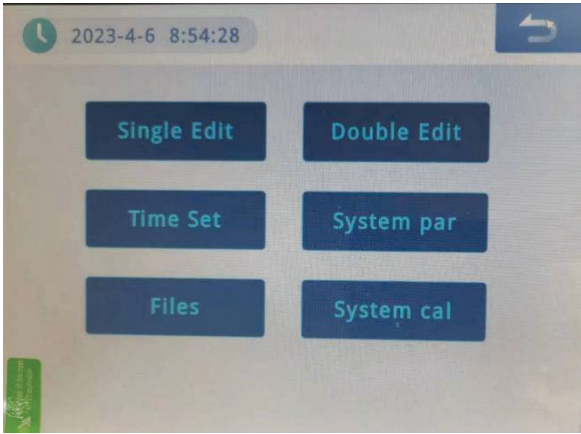
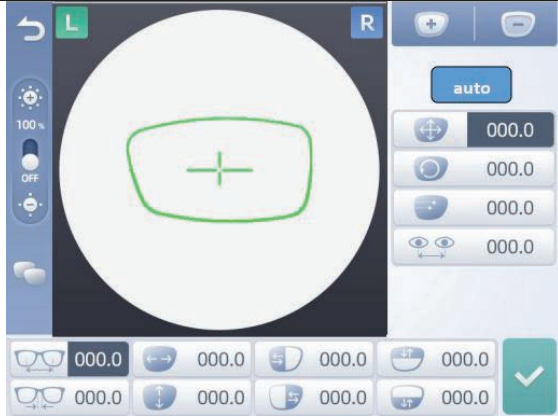
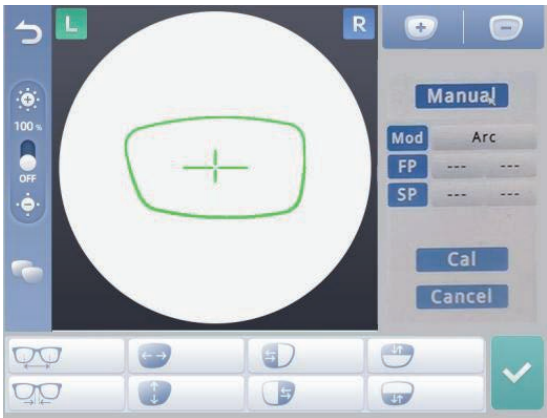


Figure 15

Icon serial number	Icon	Function introduction
1		Nasal distance : shows the nasal distance value
2		Nasal bridge distance increase key: press this button to increase the nose bridge distance
3		Nasal bridge distance reduction key: press this button to reduce the nose bridge distance
4		Lens rotation key: press this button to rotate the lens inward
5		Lens rotation key: press this button to rotate the lens outward
6		Lens rotation: displays the lens rotation angle
7		Return button: Press this key to return to the previous interface

7.3.2 Graphic editing steps

Introduction to the graphic editing function

<p>1. Single piece editor</p> <p>1) Press the menu button in the upper left corner of the main interface to enter the menu interface, as shown in Figure 15. Press the "Single chip edit" in the menu interface to enter the graphic editing interface, as shown in Figure 16</p>	 <p>Figure 16</p>
<p>2) After pressing the icon corresponding to the graphic data to be adjusted, press "Increase key" and "reduce key" to adjust the data size, and display the adjusted figure in the graphic display area synchronously</p>	 <p>Figure 17</p>
<p>1) There are three corrections for editing the lens locally:</p> <p>① Arc correction: first press the FP (first point) button on the right side of the interface, then press the point on the frame of the graph, and the data box on the right side of the button will display the coordinates of the point. Press SP (second point), press the other point of the graphic border again, and press Cal.</p>	 <p>Figure 18</p>

② Angle correction First press the FP (first point) button on the right side of the interface, and then press the point in the frame of the graph. The data box on the right side of the button will display the coordinates of the point. Press SP (second point), then another point on the border of the drawing. Press the TP (third point) button again, press the third point in the graphic frame, and finally press the Cal button.

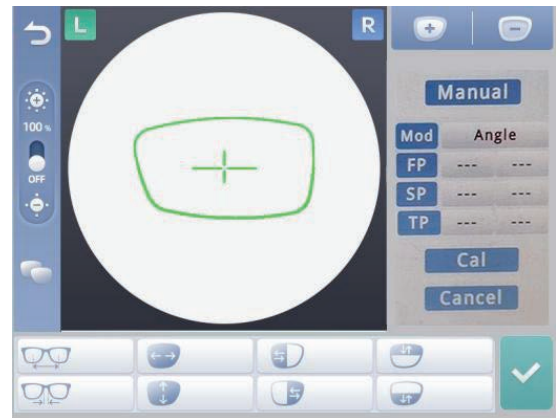


Figure 19

③ Linear correction: first press the FP (first point) button on the right side of the interface, and then press the point in the border of the display graph, and the data box on the right side of the button will synchronously display the coordinates of the point. Press SP (second point), press the other point of the graphic frame again, and press Cal.

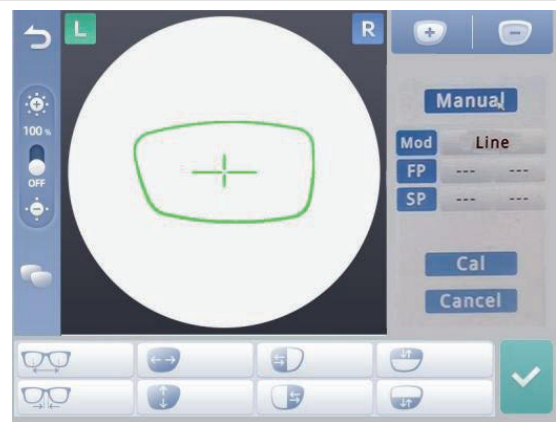


Figure 20

Tips: ① Press the **auto** on the right side of the editing interface to switch to the **Manual** interface; ;

② In the **Manual** interface, press the **Mod** button, press the "Add button" and "Reduce key" button to switch the correction mode.

③ If a selection error is found during the process, please press the **Cancel** button to cancel, and then select again.

2. Double editor

After pressing the two-chip editing button in the menu interface, enter the two-chip editing interface. As shown in Figure 20, adjust the shape of the whole pair of glasses by pressing the four function buttons. After the adjustment, press the return key and save the data.

(See 7.3.1 Function key description for the functions of each key))

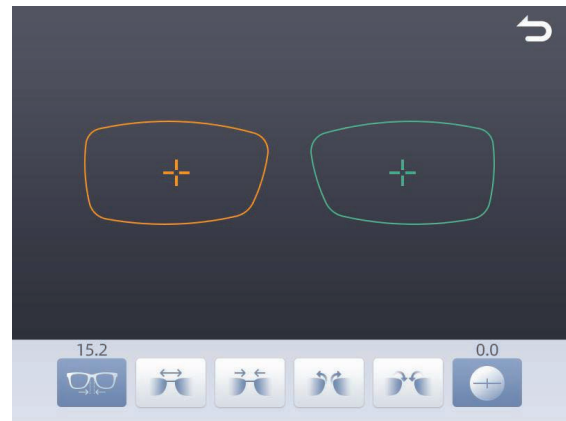


Figure 21

7.4 File management

7.4.1 Icon / function button description

Click the menu key in the main shooting interface to enter the menu interface, and click File Management in the menu interface to enter the interface as shown in Figure 22.

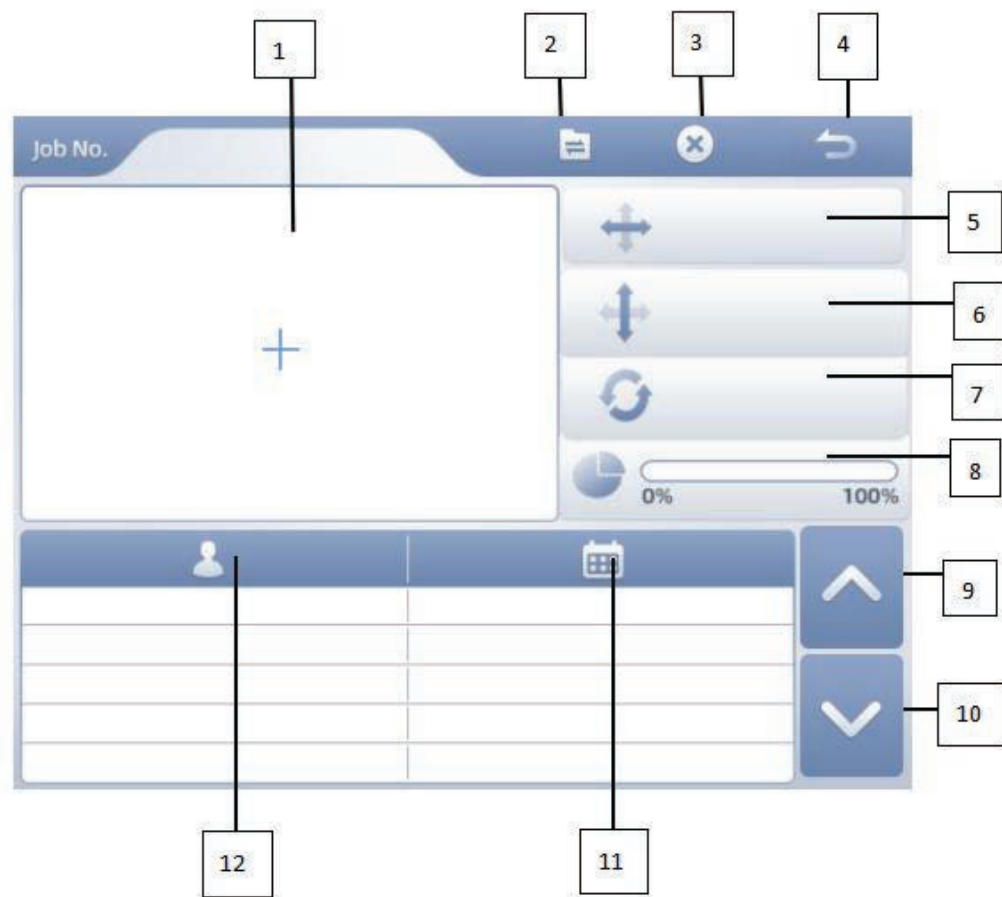











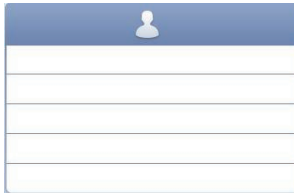

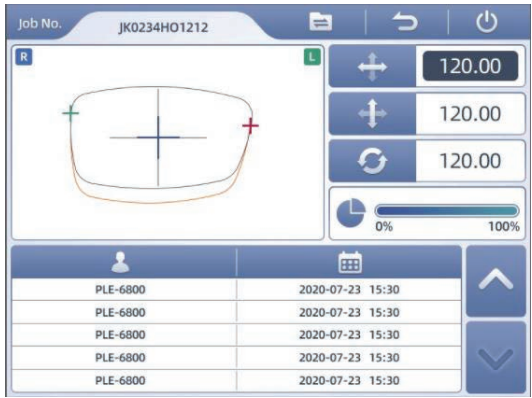


Figure 22

Icon serial number	Icon	Function introduction
1		Graphic display area
2		Transfer button: Press to transfer the selected graphics file to the main interface
3		Delete key: Press to delete the selected drawing file
4		Return key: Press to return to the menu interface
5		Displays the storage drawing width
6		Displays the storage graphic height
7		Displays the storage graph rotation angle
8		Displays the file storage capacity ratio
9		Turn the page button: press this key to enter the previous page
10		Turn the page button: press this key to enter the next page
11		Displays the graphic storage time
12		Display the stored drawing file names

7.4.2 File storage and calling steps

<p>1. After the picture is shot, press the save key of the main interface to enter the interface shown in Figure 1 on the right side. After editing the file name, press the ENTER key to complete the file storage</p>	 <p style="text-align: center;">Figure 23</p>
<p>2. If you need to call a file, press the main interface to enter the menu boundary, press the file management button in the menu interface, select the file to be called, and then press the transmission button at the top of the screen to complete the call.</p>	 <p style="text-align: center;">Figure 24</p>

7.5 System parameter

7.5.1 Icon / function button description

Click the system parameters to enter the interface as shown in Figure 25.

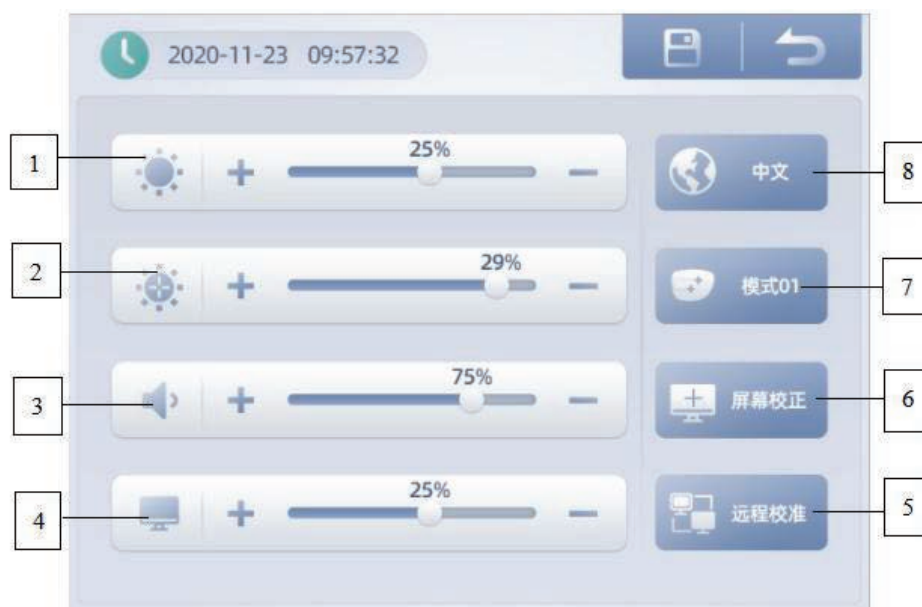










Figure 25

Icon serial number	Icon	Function introduction
1		Measure lamp brightness: adjust "+" "-" on the right (same below)
2		Measure the maximum lamp brightness value: control the brightness adjustment range. Icons 1 and 2 work together to adjust the amplitude of the brightness change appropriately
3		Press volume: Press the + - -number on the right to adjust the volume
4		Screen brightness: Press the "+" and "-" to the right
5		For calibrating the screen function
6		For calibrating the screen function
7		Center point mode (a total of three kinds), press to switch
8		Switch language

7.6 Time setting

Used to set the system time.



Figure 26

PLE-780

The operating instruction of The Tracer



Please read this instruction before using the instrument to avoid damage or injury; please keep this manual for review.

Catalogue

1. Summary	错误! 未定义书签。
1.1 Brief introduction	错误! 未定义书签。
1.2 Equipment type and protection classification	错误! 未定义书签。
2. Security information	错误! 未定义书签。
2.1 Brief introduction	错误! 未定义书签。
2.2 Safety sign	错误! 未定义书签。
2.3 Environmental factors	5
2.4 Safety precaution	6
3. Parameter features	7
4. Precautions for use	7
5. Equipment installation and measurement preparation	7
6. Appearance introduction	错误! 未定义书签。
6.1 The front structure	错误! 未定义书签。
6.2 The back structure	错误! 未定义书签。
7. Function Introduction	错误! 未定义书签。
7.1 Frame scanning	错误! 未定义书签。
7.2 Lens scanning	错误! 未定义书签。
8. After-sale service	错误! 未定义书签。
8.1 Service information	错误! 未定义书签。
8.2 Random attachment table	错误! 未定义书签。

1. Summary

1.1 Brief introduction

The PLE-780 Tracer is a precision instrument designed with a polar moving structure that can quickly and conveniently scan the precise dimensions of the frame and lens. This instrument is mainly used to scan the frame and edge shape of various glasses, obtain accurate size data of the frame and lens, and use it in conjunction with the edge grinding machine host through RS232 data interface.

1.2 Equipment type and protection classification

1.2.1 Product grade: Level 2

1.2.2 Electrical shock: Class I (ground)

1.2.3 Electrical shock protection grade: Class B

1.2.4 Waterproof grade: ordinary

1.2.5 Safe environment: not suitable for use in flammable, explosive and dust environment

1.2.6 Operation mode: continuous









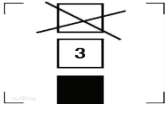


2. Security information

2.1 Brief introduction

Safety is everyone's responsibility. The safe use of this device mainly depends mainly on the installer, user, operator, and maintainer. Personnel must learn and become familiar with this manual before attempting to install, clean, repair or adjust this equipment and any related accessories. The instructions contained in this manual should be fully understood and followed to enhance the safety of users and operators. Therefore, the following safety notices are appropriately placed in the body of this manual to highlight safety-related information that requires special emphasis. All users, operators and maintainers must be familiar with and pay special attention to all warnings and reminders contained herein.

2.2 Safety sign

The International Electrotechnical Commission (IEC) has established a set of symbols for medical and other electronic devices to classify or warn of any potential hazards. The classification and notation are shown below.

	<p>Power switch</p>
	<p>Safety warning</p>
	<p>Date of manufacture</p>
	<p>Manufacturer</p>
	<p>Handle with care</p>
	<p>Safety ground</p>
	<p>Temperature limitation</p>
	<p>Save dry</p>
	<p>Repose code three layers</p>
	<p>Waste treatment</p>
	<p>Fuse</p>

2.3 Environmental factors

2.3.1 The equipment shall not be used in environments with flammable, explosive or volatile solvents such as alcohol, benzene or similar chemicals, which can have adverse effects on the instrument; the instrument is only suitable for indoor use.

2.3.2 This equipment shall not be used in too hot or dusty environment. The machine should not be exposed to water splashing, dripping, or spray. Do not place containers containing a liquid or gas on top of the device.

2.3.3 There shall not be direct sunlight and proper temperature and humidity. The environmental parameters suitable for storage and use are as follows:

Usage environment Temperature : 5-40 °C (41-104 °F)
 Humidity : 35-85%(No condensation phenomenon)
 Pressure : 700 - 1060 hPa

Storage and transportation environment

Temperature : -30 - 70 °C

2.4 Safety precaution

The equipment is developed and tested in accordance with domestic and international safety standards and regulations, with high stability, safety and effectiveness. To ensure that users use the device correctly and safely, please read this manual carefully. For more information, please contact our customer service department or our authorized representative.

2.4.1 Safety precautions

Please visually inspect the appearance of the equipment to ensure normal operation before each use.

- 1) Do not open and touch the inside of the instrument, otherwise it will cause electric shock or instrument failure.
- 2) Do not push too hard to damage the touch screen or button.
- 3) Ensure that the specified supply voltage is used. If the voltage is too high or too low, the instrument will not be used normally, resulting in the risk of instrument damage or electric shock.
- 4) If the metal core is exposed in the power line, a new power line should be replaced immediately to avoid electric shock or fire.
- 5) If the instrument smoke or odor and other abnormal conditions, should immediately turn

off the instrument, cut off the power supply. It can be used before professional technical personnel check maintenance and confirm troubleshooting.

2.4.2 Move the notes

When moving the instrument, support it with both hands from the bottom to prevent damage.

2.4.3 Notes after use

If the instrument is not used for a long time, the power cord should be removed and cut off the power supply to prevent fire. After use, turn off the power supply and cover the dust cover. So as not to affect the service life and measuring accuracy of the instrument.

2.4.4 Connection precautions

External equipment used to connect signal input, signal output or other connectors shall meet the relevant safety standards (e. g. IEC60950 of IEC60601-1 series). If in doubt, please contact the factory technician or your local dealer.

3.Parameter features

3.1 Scanning Type: Internal Scanning (Frame Scanning), External Scanning (Template Scanning)

3.2 Scanning Time: Less than 20S

3.3 Scanning Accuracy: 0.1mm

3.4 Power Source: AC100-240v 50/60HZ

3.5 Net Weight:5KG

3.6 Gross Weight: 7KG

3.7 Outline Dimension: 300 *280 *340mm

4.Precautions for use

4.1 Please do not use excessive force when operating the equipment, and do not hit or drop the instrument. The instrument may be damaged by strong impact. The impact may impair the functionality and accuracy of the instrument.

4.2 If you want to use it as a connection device to other devices, please follow the guidance of your local dealer.

4.3 Please do not use organic solvents such as alcohol, diluents, benzene, etc. to clean the surface of the equipment.

4.4 When using contour scanning, pay attention to the probe tip being higher than the contour bottom plate.

5. Equipment installation and measurement preparation

5.1 Remove the equipment from the packing box and remove the packing bag and desiccant. Place it on a solid desktop.

5.2 Please confirm that the local power supply voltage matches the nominal voltage of the equipment. After checking that the power switch of the equipment is off, insert the power cord into the bottom socket of the equipment and the power plug into the AC socket.

5.3 With RS232, connect the PLE-6800 and PLE-680 interface.

5.4 The device will automatically run the power saving function within the specified time, and press any key to return to the measurement mode.

5.5 To notice the user, have a label on the bottom of the instrument. Please use the power supply and replace the fuse.

6. Appearance introduction

6.1 The front structure



6.2 The back structure



7.Function Introduction

7.1 Frame scanning

Step1. Prepare the Frame scanning frame and the main body of the fuselage



Step2. Install the Frame scanning frame and the main body of the fuselage as shown in the following figure (When installing, the probe should avoid internal scanning to prevent it from being damaged by internal scanning)



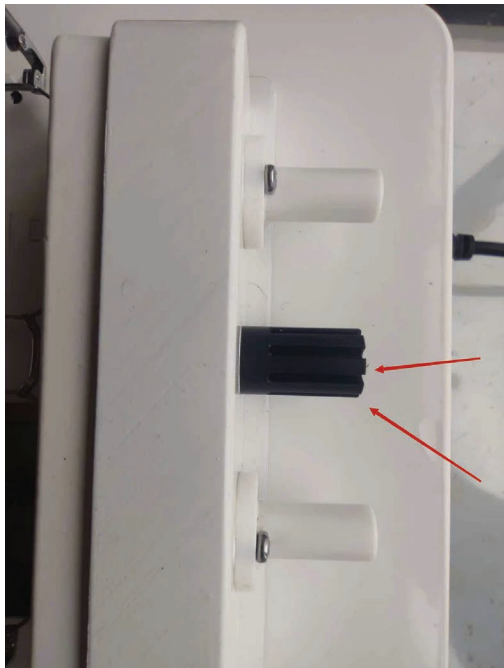
Step3. Pull the white knob back and place the glasses in it



Step4. Adjust the glasses horizontally and place two Positioner support blocks against the eyeglass frame



Step5. Adjusting the black knob



Place the frame position within a rectangular frame As shown in the

following figure



Step6. Turn on the power switch



(Closed state ; Open Status)

Step7. Reset

After the switch is turned on, the machine has two states: one is that the reset light is off; Another method is to keep the reset light on. When the



reset light is constantly on , Move the probe back to the position shown in the

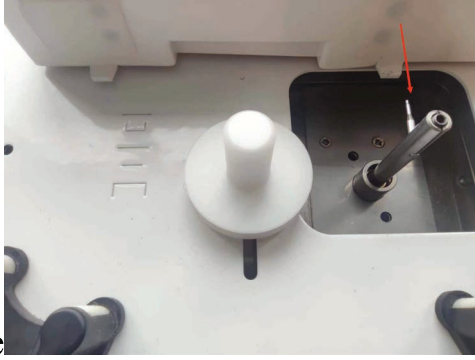


figure , After hearing the "beep" sound,

click RESET and wait for the machine to stop running before proceeding to the next step.

Step8. After the machine is reset,The RESET indicator light goes out,

Move the probe position so that it presses against the mirror frame.



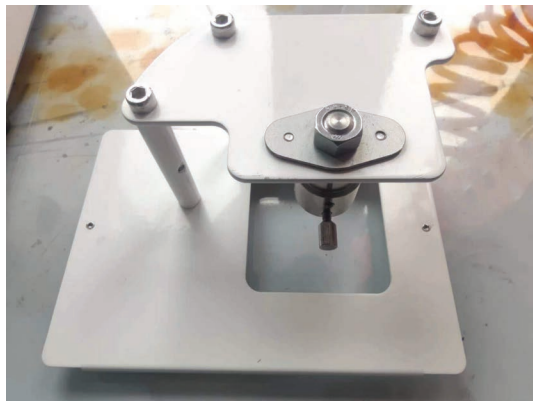
Step9. Click RSCAN, Machine starts running



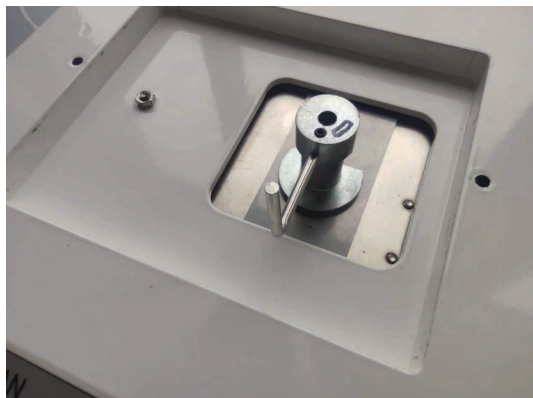
After the machine is running, click DATA to transferring data.

7.2 Lens scanning

Step1. Prepare the Lens scanning frame, the main body of the fuselage, and probe sleeve as shown in the figure



Step2. Fit the probe head onto the main probe head (Note that the direction of the probe tip should pass through the groove of the probe sleeve during installation)



Pay attention to lifting the probe when installing the probe and probe

head cover, as shown in the figure



Tighten the probe rod and probe head cover, as shown in the figure



Step3. Install the suction cup with the glasses installed onto the Lens scanning frame, as shown in the figure



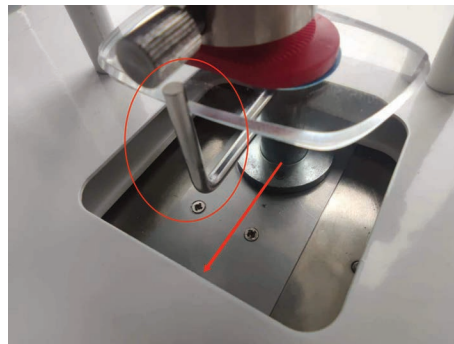
Tighten the screws and clamp the suction cup with glasses, as shown in the figure



Step4. Turn on the power switch

Step5. Reset

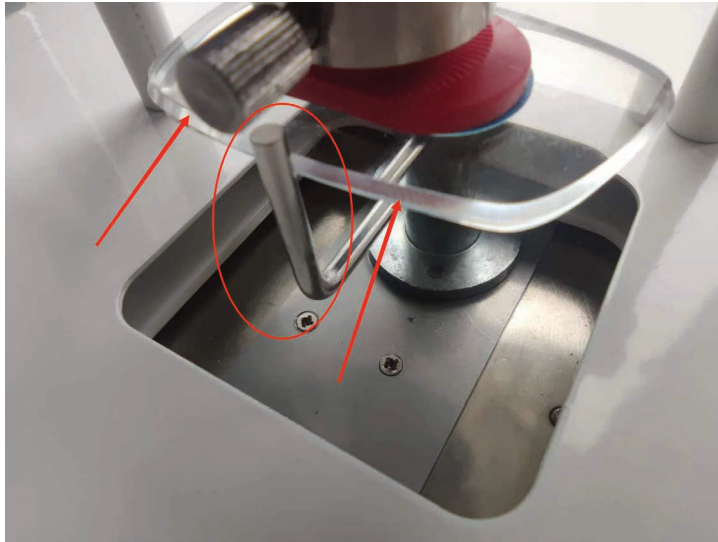
After the switch is turned on, the machine has two states: one is that the reset light is off; Another method is to keep the reset light on. When the reset light is constantly on, as shown in the figure



Pull the metal rod back.

After the "beep" sound, click and the machine will run.

Step6. After resetting, Indicator light off, Move the metal rod to fit the lens, as shown in the following figure



Step7. When scanning the right slice, click button to make the machine operating

After the machine is running, the pilot lamp light up, click the

button to transferring data.



When scanning the left slice , click button to make the machine operating, After the machine is running,the pilot lamp light up, click the button to transferring data.

Attention: Any unexpected situation can be stopped by clicking the button.