AUTO LENS SCANNER

User Manual

CE

Preface

Product Introduction

Dear Customer,

Thank you for choosing our product and for placing your trust in our company.

The optical scanner is a device specifically designed for optical stores. Its functions include scanning lens/frame contour templates, editing contour data, storing contour data, and serving as an optical centration instrument.

Please read this manual carefully and keep it near the edger for easy reference.

The information in this manual is not contractual and may be revised without prior notice. Although the content has been carefully checked for accuracy, errors or omissions may still occur. The manufacturer accepts no responsibility for any consequences resulting from improper operation.

Safety Information

1. Safety Symbols and Descriptions on the Product

Warning
This symbol indicates that improper operation contrary to the instructions may result in life-threatening danger or serious injury.

Prohibited Action Symbol
This symbol indicates actions that are not allowed (prohibited items). The specific prohibited content will be shown inside or near the symbol.

Mandatory Action Symbol
This symbol indicates actions that must be followed. The required action will be illustrated inside the symbol.

2. Operating Environment

Please avoid using the device under the following harmful conditions:

A. Outside the specified temperature range
B. Strong vibrations
C. Direct sunlight (as this is an optical instrument, it is recommended to use it in a dark room)
D. Dusty or smoky environments
E. Humid conditions

3. Precautions for Using the Product

General Precautions

A. Do not subject the machine to sudden impacts.
B. Do not press the keys forcefully; a light touch is sufficient for normal operation.
C. Do not lean on the machine; it may fall and cause injury.
D. Turn off the power and clean the exterior of the machine at the end of each working day.
E. Do not expose the machine to insecticides or other volatile solvents, as these may cause the casing or other parts to age or become damaged.

Prohibited Operations

A. Do not plug or unplug the power cord with wet hands, as this may cause electric shock.
B. Do not use AC power sources that do not match the rated specifications, as this may cause fire or electric shock.
C. Do not use the machine on the same power strip as other high-power electrical appliances. Large voltage fluctuations may cause malfunction. The machine should be connected to an independent power outlet.
D. Do not place metal objects or containers with liquids (such as vases, flowerpots, cups, etc.) on the machine. If metal objects or liquids enter the machine, fire or electric shock may occur.
E. Do not scratch, damage, modify the power cable, or place heavy objects on it. Do not pull or bend the power cable excessively. These may cause fire or electric shock.
F. Do not disassemble, repair, or modify the machine by yourself. High-voltage components, hot parts, or sharp parts inside the machine may cause injury.

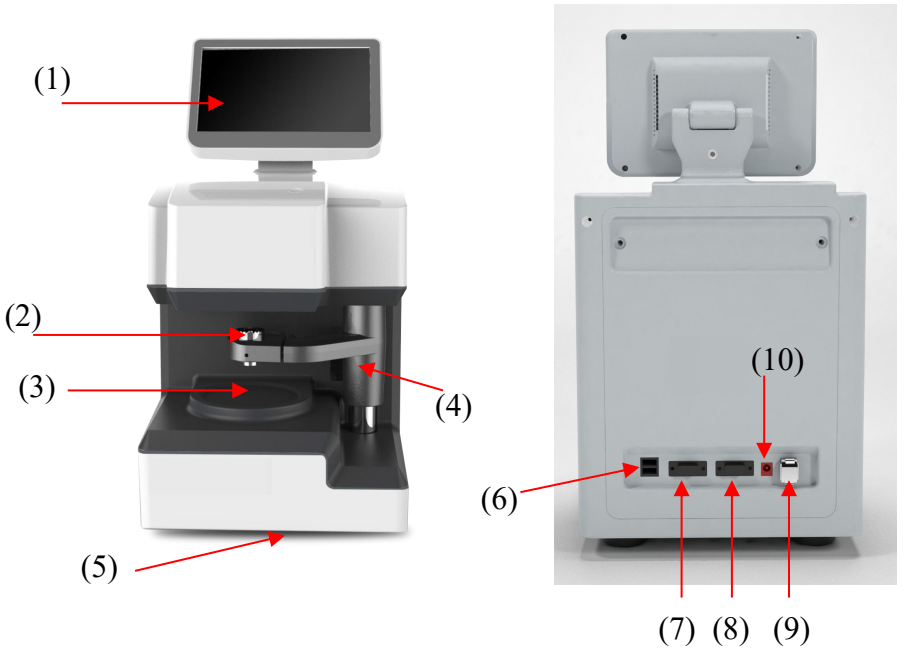
Additional Safety Notes

A. Ensure the machine is properly grounded, and the external power supply must also be grounded. Improper grounding may result in fire or electric shock.
B. If the machine is dropped or the casing is damaged, turn off the power switch immediately and unplug the power cord. Then contact the sales agent or the company's after-sales service center. Continuing to use the machine under such conditions may cause fire or electric shock.
C. When unplugging the power cord, always hold the plug itself. Pulling on the cord may cause it to break or expose internal wiring, leading to fire or electric shock.
D. If any abnormal situation occurs during use—such as smoke, unusual odor, or abnormal heat—turn off the power immediately, unplug the power cord, and contact the sales agent or after-sales service center. Continuing to use the machine in these conditions may cause fire or electric shock.

Table of Contents

1. Product Overview

1.1 Main Unit



Illustrations and Descriptions

(1) Display Screen (Touch Screen)

(2) Lens Block Holder

(3) Lens Stage

(4) Lensmeter Rotation Axis

(5) Grounding Wire

(6) USB Port (Reserve Port)

(7) Communication Port 1 (COM1)

(8) Communication Port 2 (COM2)

(9) Power Switch

(10) Adapter Connector

2.Operation

2.1 Installation

2.1.1 Instrument Installation

Instructions:

A. Select a stable, level, and rigid platform to ensure the instrument is securely supported.
B. Connect one end of the communication cable to the scanner and the other end to the edger.
C. Connect the adapter plug to the scanner.
D. Refer to Figures 2-1 and 2-2.

Figure 2-1

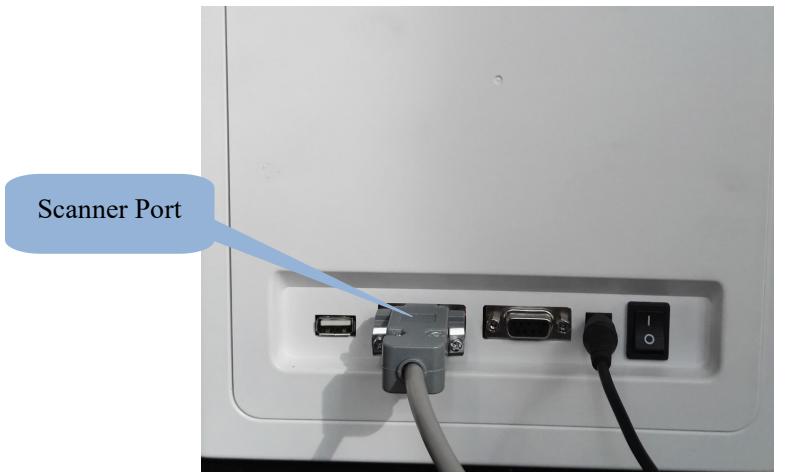


Figure 2-2

2.2 Instrument Operation

2.2.1 Main Interface

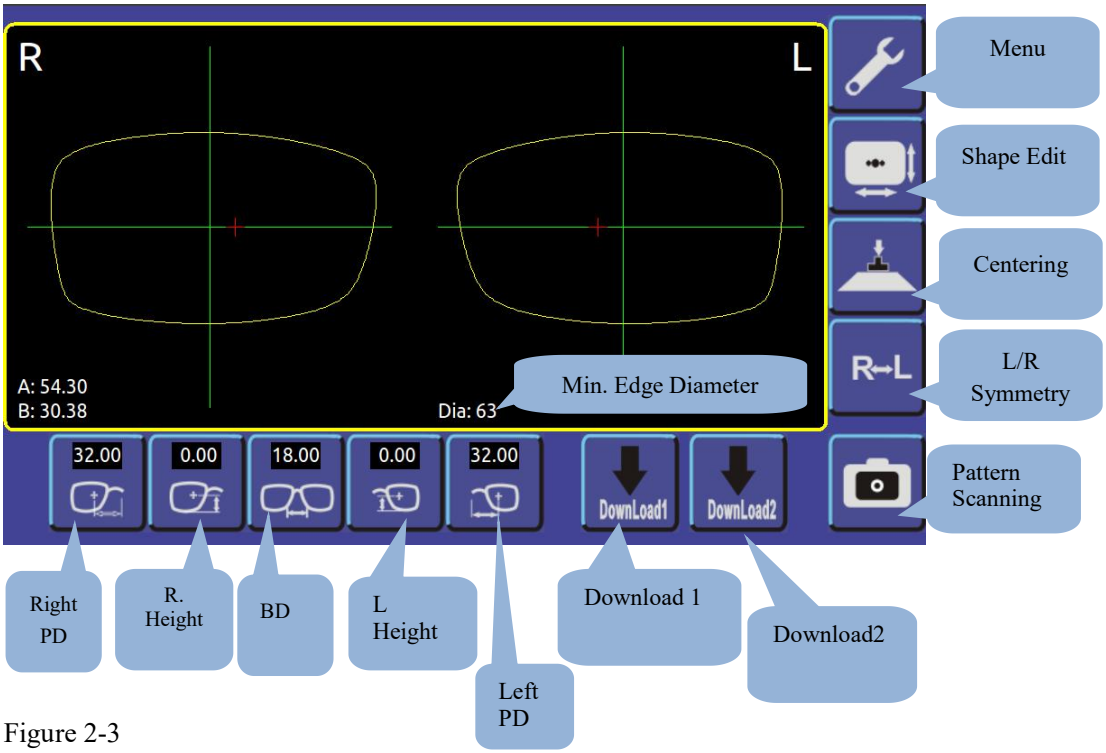


Figure 2-3

2.2.2 Lens Template Scanning

A. Click the button on the main interface  to enter the Lens Template Scanning screen.

B. Use a Lensmeter to mark reference points on the lens template.

C. Remove the lens template and place it on the lens stage with the convex side facing down and the concave side facing up.

D. Align the three points on the template with the horizontal line of the blue cross, as shown in Figure 2-4.

E. The system will automatically recognize the template contour. Once the red outline appears, click  to confirm.

F. Enter the bridge distance of the frame, as shown in Figure 2- 5.

G. After setting the bridge distance, click  on the interface to set the pupillary distance (PD) and pupillary height, as shown in Figures 2- 6 and 2- 7.

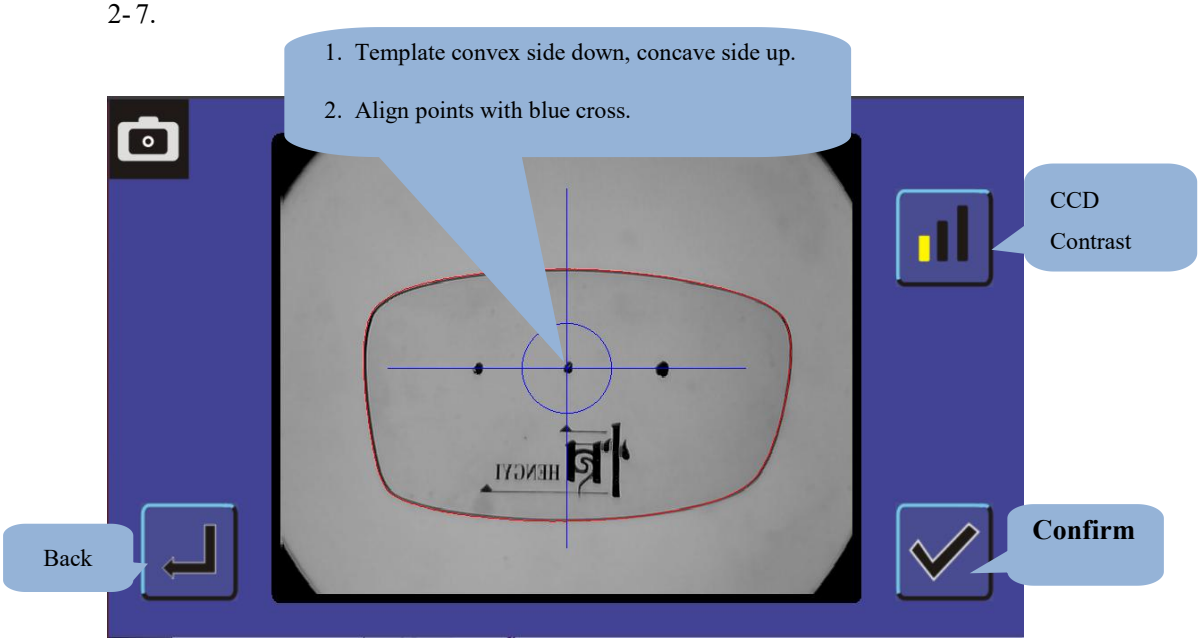


Figure 2-4

Note:

1, Keep the lens stage clean and free of debris.

2, During contour scanning, ensure the lens edges are free of dust and dirt.

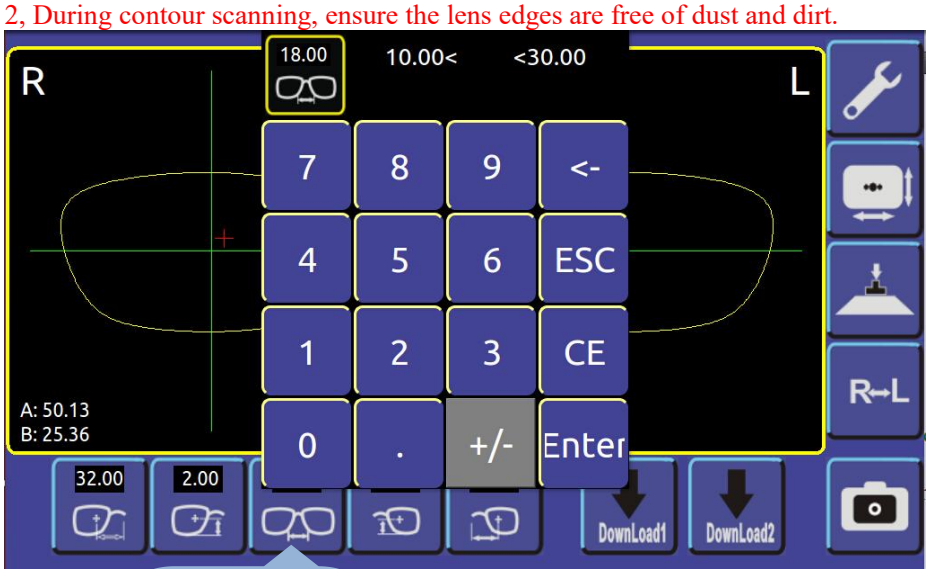


Figure 2-5

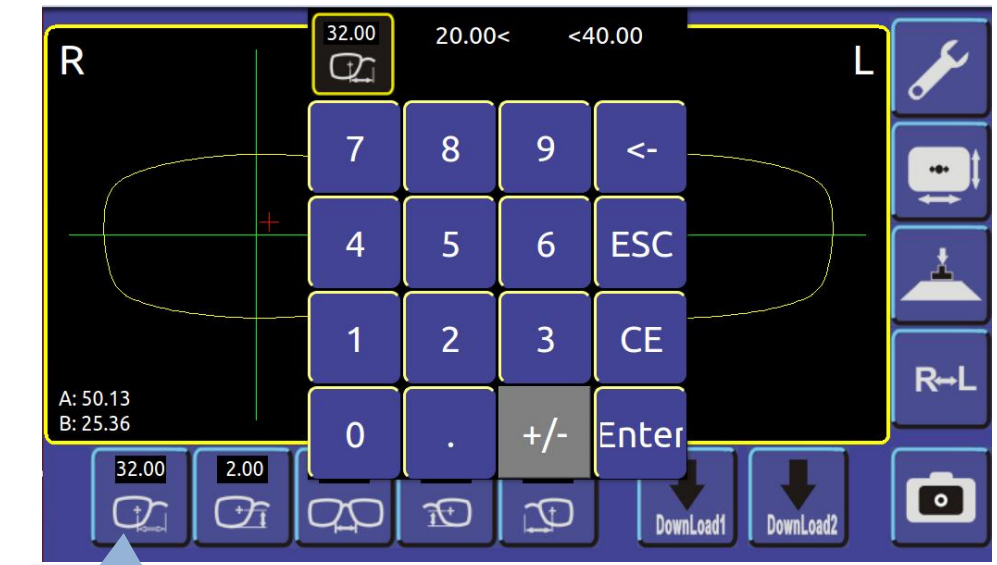


Figure 2-6

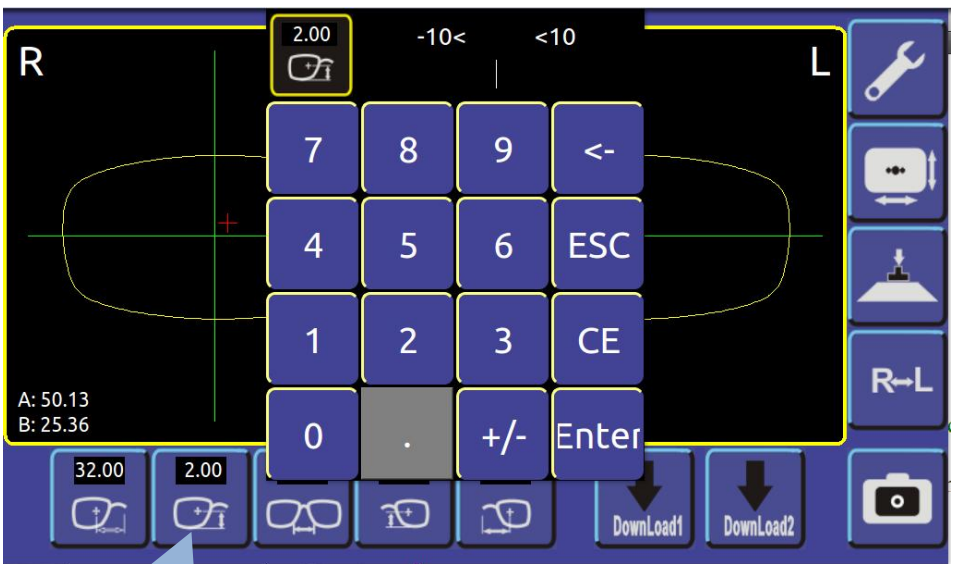
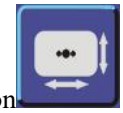
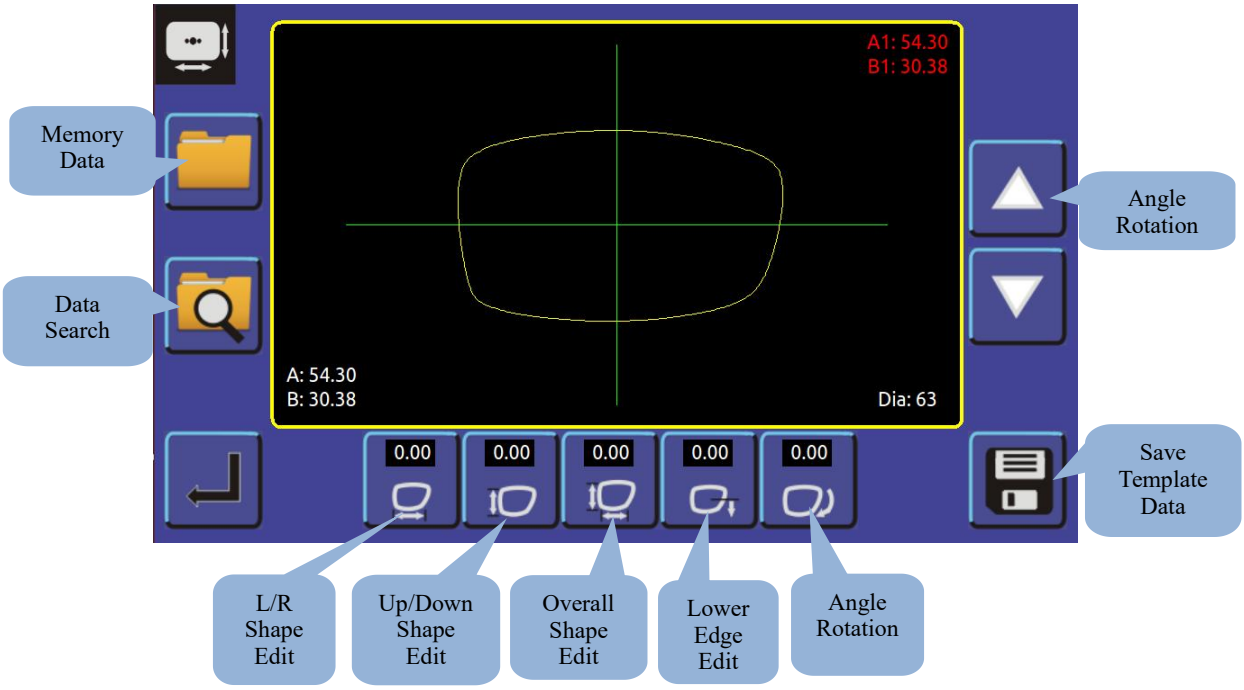


Figure 2-7

2.2.3 Template Data Modification (Special Lenses)

A. Tap the main screen button  to enter the shape-editing interface.

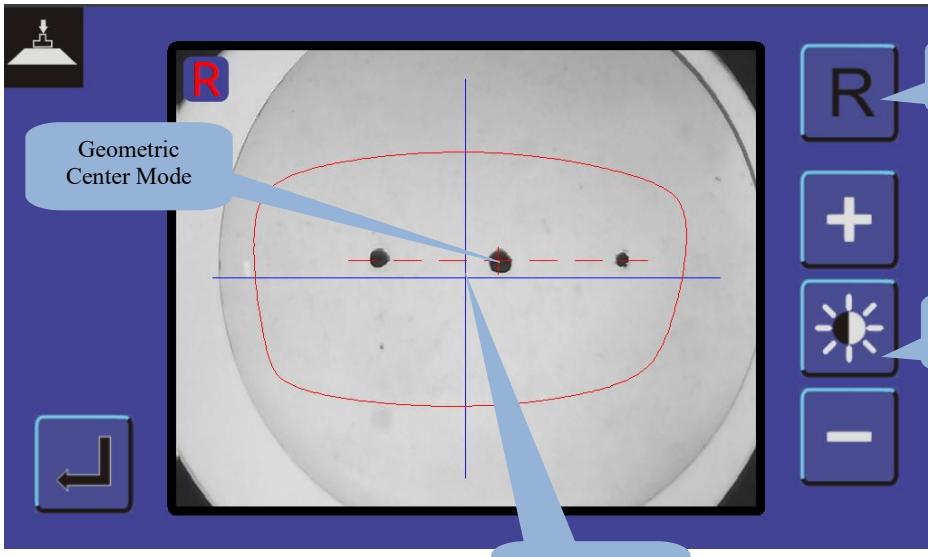


Note:

After modifying the shape, you must reset the Pupillary Distance (PD), Height (HD), and Bridge Distance (DBL), and then retransmit the data to the edger.

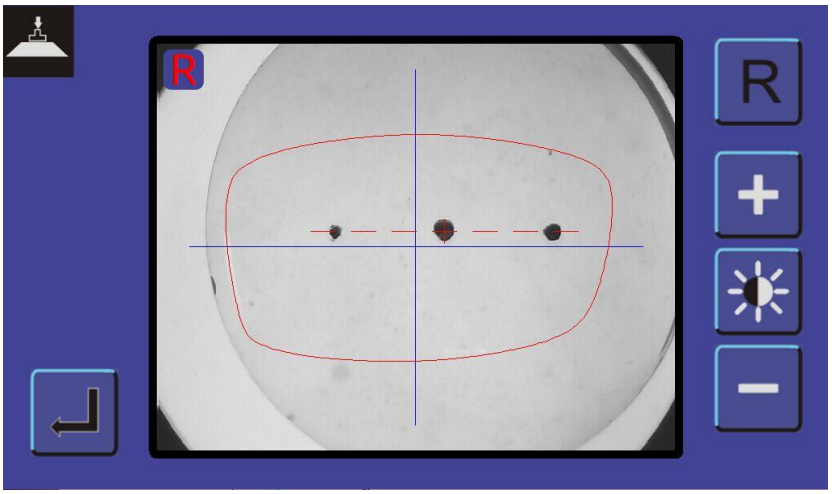
2.2.4 Lens Centering

A. Click the main interface button  to enter the lens centering mode.



B. Insert the suction cup and flip the suctio

C. Select Geometric Center Mode, rotate the swing arm, and press down the suction cup.



D. Take the lens out of the device.

Note:

The instrument provides two default centering modes (Geometric Center Mode and Optical Center Mode).

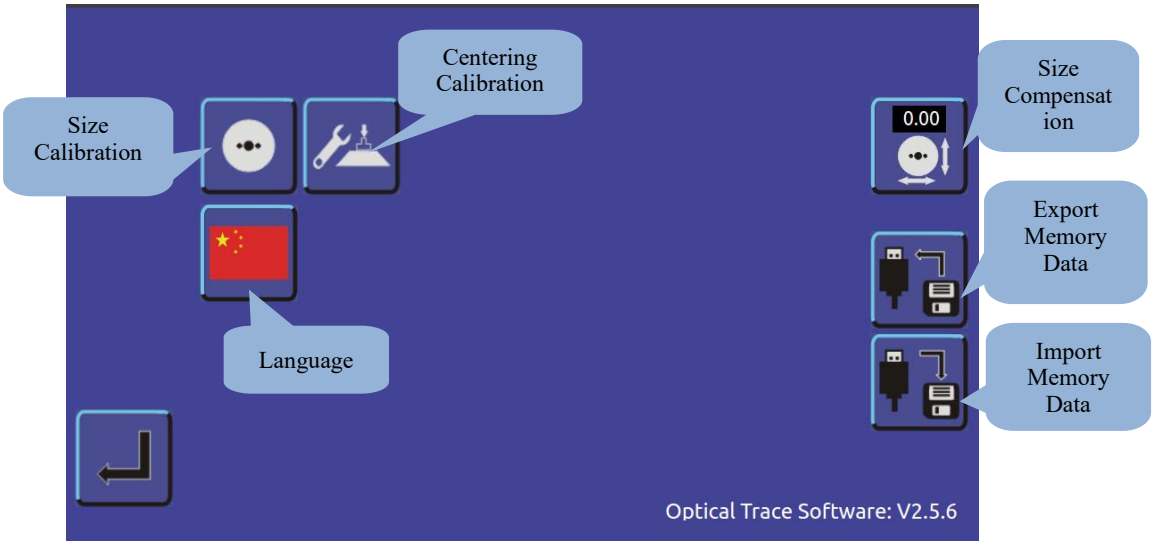
1. Geometric Center Mode (Manual Decentration) → Edger Processing Mode 

2. Optical Center Mode (Auto Decentration) → Edger Processing Mode 

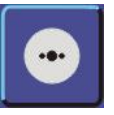
3. When using the Optical Center mode, after the edger receives the downloaded data, you must re-set the △X, △Y, and DBL values.

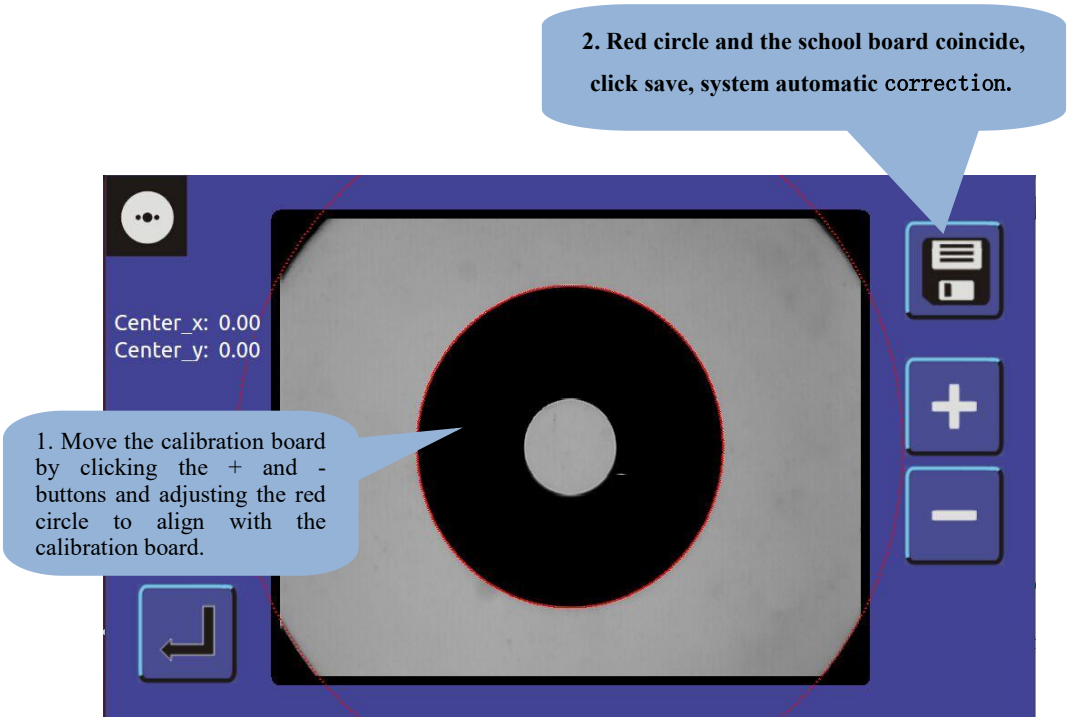
2.2.5 Menu

A. Tap the main interface button  to enter the Menu.



2.2.6 Size Calibration

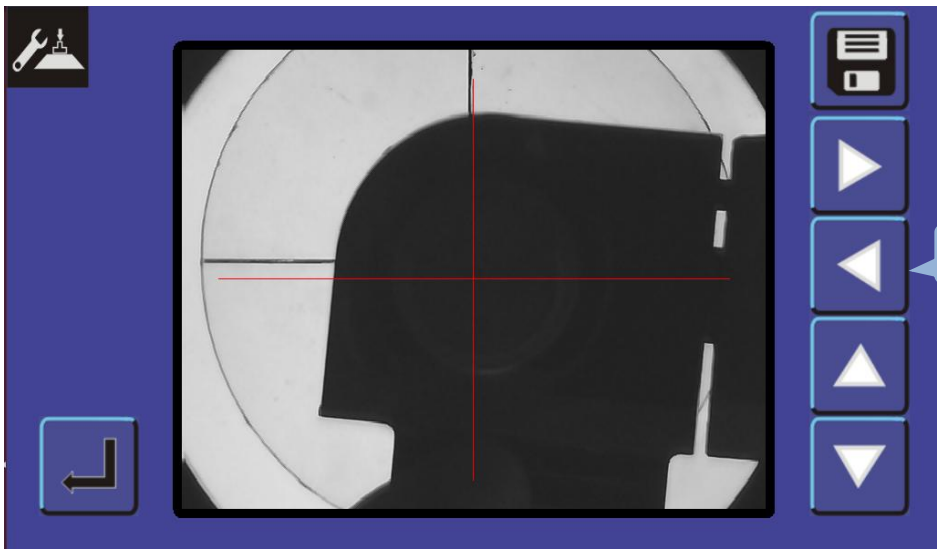
A. Tap the Menu button  to enter the Size Calibration interface.



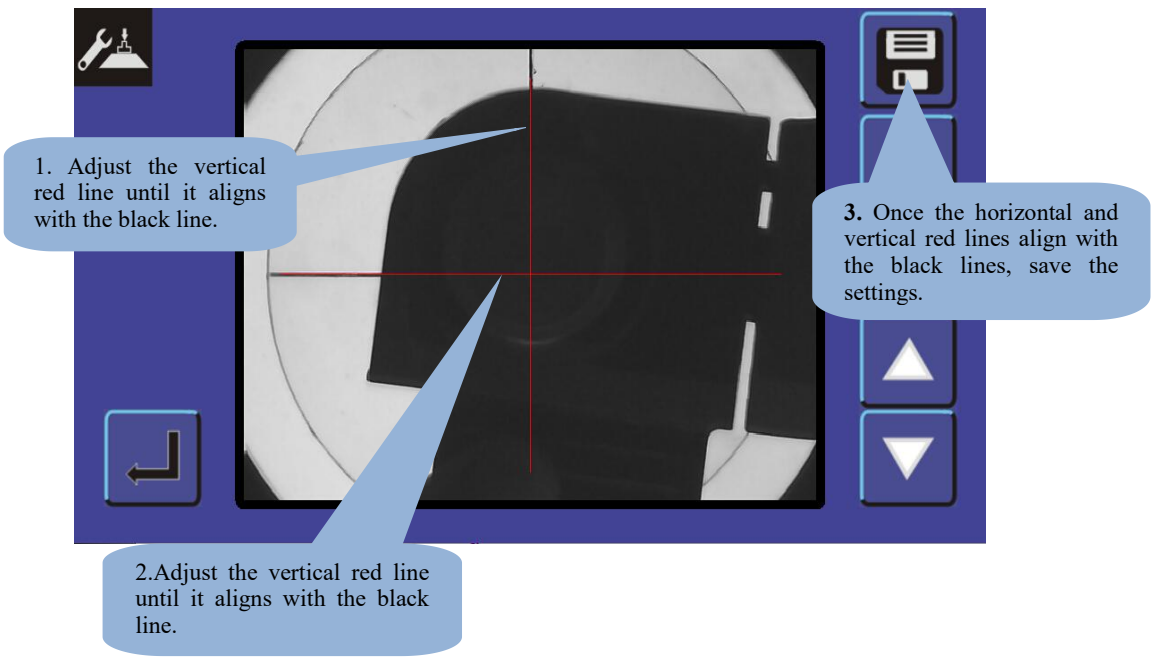
2.2.7 Lens Centering Calibration

A. Tap the Menu button  to enter the Centering Calibration screen.

B. Insert the calibration tool into the suction-cup holder, rotate the centering arm, and press down



C. Align the horizontal and vertical red lines with the black lines, then click the Save button.



3. Specifications Parameter

Overall Dimensions: 217 × 232 × 413 mm

Measuring Range: Lens template — L ≤ 70 mm; W ≤ 70 mm

Net Weight: 10 kg

Power Requirements:

Power Adapter Input: AC 100–240 V (50/60 Hz)

Power Adapter Output: DC 19 V / 4.7 A

Power Consumption: ≤ 50 W

Operating Environment: 5°C to 40°C

4. List of Accessories (Packing Components)

No.	Item Name	Quantity
1	Power Adapter	1
2	Dimension Calibration Plate	1
3	Black Marker Pen	1