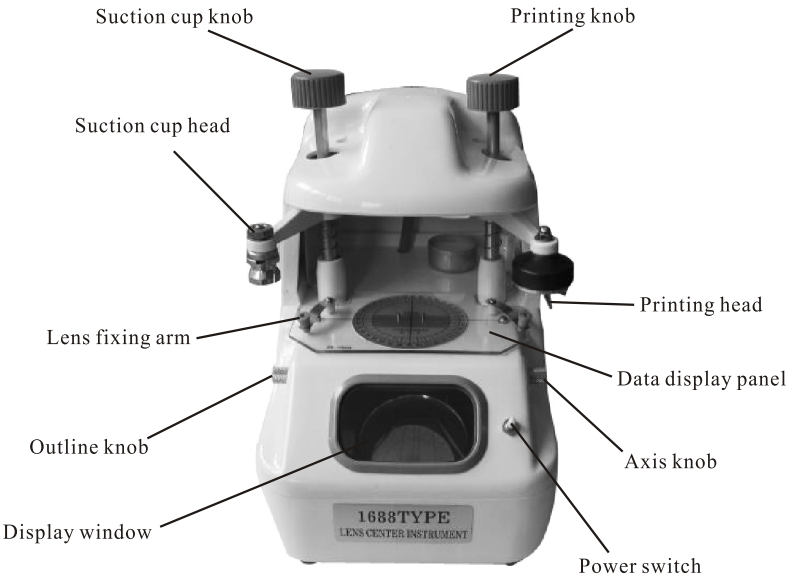
Contents

1. Description of the unit

The layout blocker is a spectacles equipment for processing spectacles. It can be used to confirm and fix the lens centre position for the automatic computer lens edger.The united use of the layout blocker, pattern maker and automatic computer lens edger makes spectacles perfect.

Fig.1. Layout Blocker

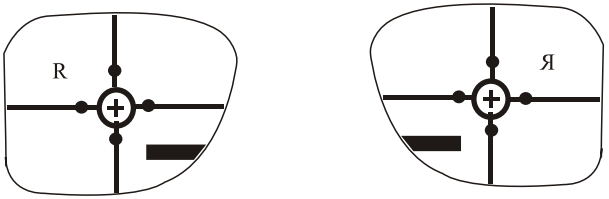


◆Suction cup knob: press it to move the suction cup head;
◆Suction cup head: support and fix the suction cup;
◆Data display panel;
◆Lens fixing arm: fix the lens;
◆Outline knob: adjust the outline line;
◆Display window: display the measuring data;
◆Printing knob: press it to move the printing head;
◆Printing head: mark the centre position on the lens;
◆Axis knob: move the axis;
◆Power switch;

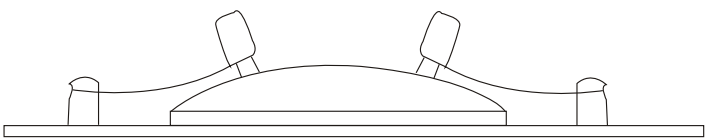
2.Operation Instruction

◆Turn on the power switch,the light will work;

◆Place the standard templet on the data display panel(the templet mark face and back refer to the left and right lens);



◆Place the lens on the templet,use the lens fixing arms to fix the lens,keeping the lens centre coincident with centre point on the data display panel;



◆Rotate the axis knob ,move the centre red line to left or right in the given distance;

◆Rotate the outline knob,move the two lens edge outline lines to measure the lens outline;

◆Install the suction cup to the suction cup head,rotate the suction cup knob, move the suction cup to absorb and fix the lens;

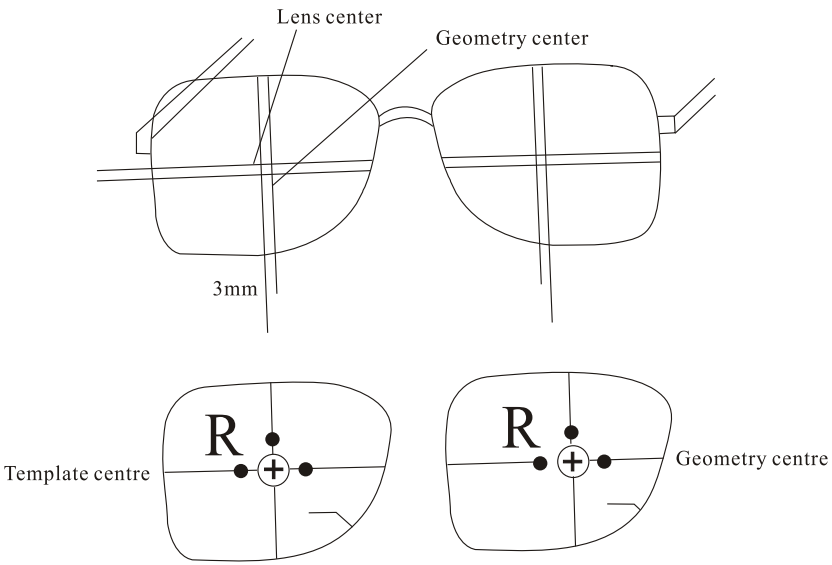
◆Take down the cup together with the lens,install it to the clamping head of the automatic computer lens edger.

3. Center Movedata Measuring

Middle red line moving distance=(frame geometry centers distance -pupil centers distance) / 2;

Example: the distance of the two frame geometry centers is 70mm,the distance of the two pupil centers is 64mm,then you can get the center movedata is (70-64) / 2 =3mm; the middle red line of the left or right lens need to move to left or right 3mm;

Note: Usually the center point of myopia lens lie on the 2mm middle red line crosspoint with the 0 graduation level line.



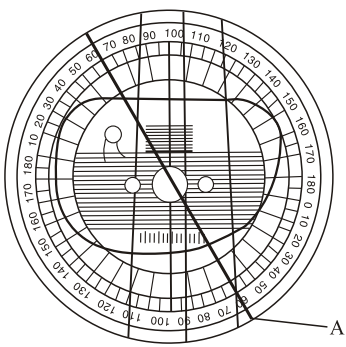
4.Axis moving of astigmatism lens

The astigmatism lens has two axises, optical axis and astigmatism axis, the degree of the two axises angle is the astigmatism degree.

The astigmatism axis and lens center can be measured by lensmeter;

Keep the lens center and optical axis coincident with the center point on the data panel and 0 graduation level line;

If not mark the optical axis on the lens, only center point and astigmatism axis marked; move the lens on the data display panel, keep the lens center point coincident with the center point on the data panel; then revolve the lens, move the astigmatism axis to the correct axis graduation(the astigmatism axis angle degree can be measured by lensmeter).

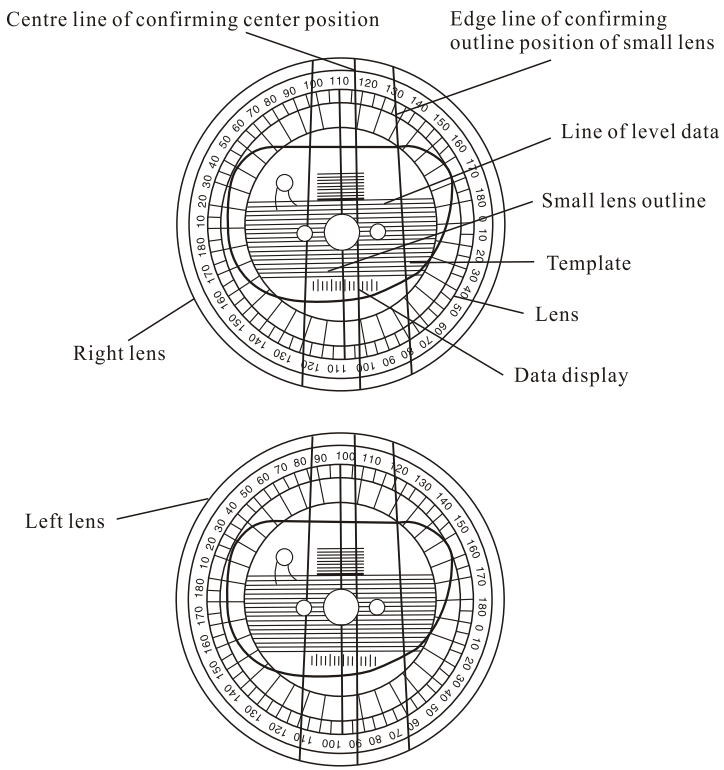


5. Axis moving of bifocal lens

Bifocal lens has two optical centers. When measuring, first keep two centers on the 90 graduation vertical line; move the outline line to the edge of the inward small lens;

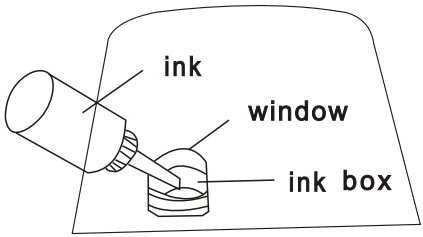
Confirm the correct distance between the two optical centers, keep good result for your eyes; then confirm the correct optical axis, move and keep the axis coincident with 0 graduation level line;

Move the middle red line to the correct position according to the center movedata, then move the center of the big lens and keep it coincident with the new center of the middle red line and the 0 graduation level line crossing. The center of the small lens will also move the same distance (Same person,same lens,also same center movedata;So it’s ok to choose one of the two centers in the bifocal lens and move the red line).

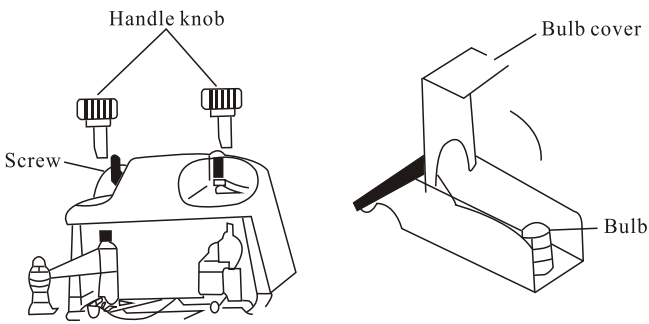


6. Maintenance

◆Fill ink into the ink box by the back window;



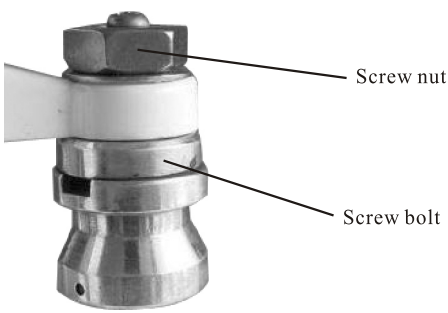
◆Change bulb: unpack the handle knobs, loosen the screw of the top cover, pull the cover and you can change it now;



◆Change the suction cup head:

loosen the screw of the cup,change the head; while installing, twist lightly,do not twist tightly. The head produced in other factory can be also used;

Caution: Do not loosen the hexagon screw nut in case of deforming.



◆Change printing head: push down the printing head lightly, change the head;

Caution: Do not loosen hexagon screw nut.