

Lens Inspection Station User Manual



Thank you for choosing the Lens Inspection Station.

The Lens Inspection Station is a compact, easy-to-use three-in-one instrument designed for optical professionals. It combines a PAL Identifier, Polariscope, and Inspection Lamp to help you quickly identify progressive lens markings, reveal lens stress, and inspect finished lenses for surface or coating defects.

PAL Identifier

This device assists in the quick and easy location of manufacturers' markings on progressive lenses.

Special background contrast and illumination help make lens markings easier to identify. The adjustable viewing angle provides improved visibility, while LED lighting and the mounted magnifier assist in reading fine markings.

The PAL Identifier can assist in identifying:
Manufacturer markings
Lens type/ID
Reference marks

It can also be used to check lens strain and identify potential areas of distortion, as well as inspect the lens surface and coating for defects.

• Function: Polariscope

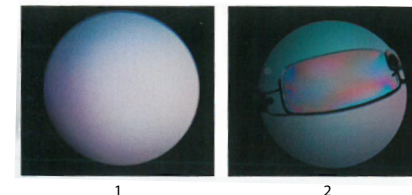
Usage: To see lens stress. Also shows polarized lens axis.

1. Power on. Hold the lens between the light source and the polarized filter and check.

2. If it shows the same as Pic. 2, the lens strain is not in the balance. The imbalance is proportional to the darkness of the color. The lens strain can be reduced by edging the darkest part of the lens.

3. If the lens strain is not kept in balance, the patient feels comfortable when looking straight ahead, but may experience discomfort or unclear vision when looking to the side. This condition usually occurs with full-frame or semi-rimless glasses, but is less common with rimless glasses.

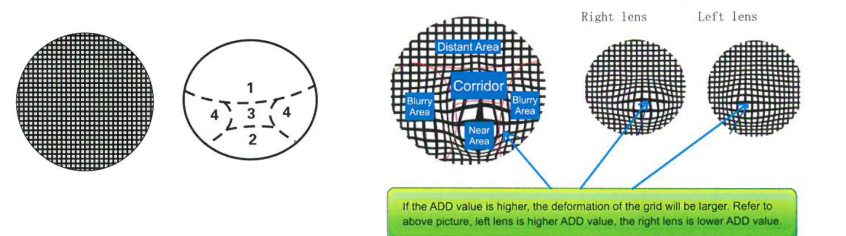
4. Some strain in PC (polycarbonate) lenses is unavoidable. However, visual quality will be better when lens strain is minimized.



• Function: PAL Identifier

Usage:

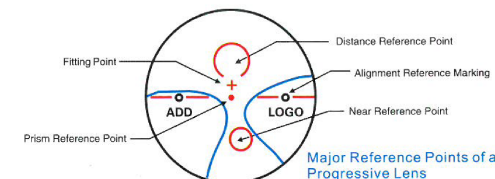
Place the lens above the parallel light grid and observe the four areas of the lens. This makes the lens markings easier to identify and inspect, as shown in the following illustrations.



Showing the Invisible Marks

Usage:

Put the lens on the grid and observe it with the above magnifier. After confirming the four areas, keep the distant area and near area in a horizontal line and find out the invisible marks on both sides (ADD value is usually on one side and the brand marks would be on the other side).



• Function: Final Inspection

Usage:

It is convenient to observe the surface of the lens with the light and the magnifier. Scratching, bubbling and other coating problems can be checked out. In general, this instrument is very important during the process of fitting and testing progressive lenses.

