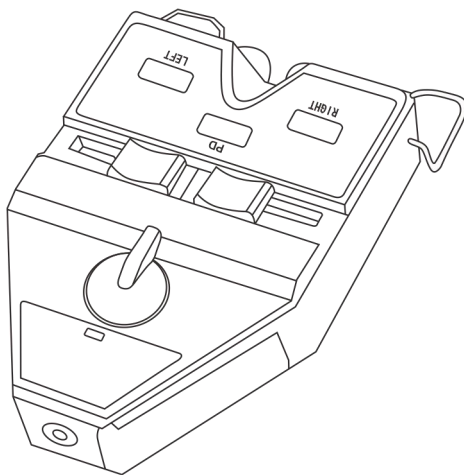


Digital Pupillary Distance Meter



Use's Manual

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Mechanical Pointer Pupillary Distance meter

This is a digital pupillary distance meter. It employs precise optical structure, the line of light is very clear and precise measurement. The measurement results are displayed digitally, and the left eye and right eye measuring values are displayed separately. Simple and rapid measuring operation, and free operation of the direct PD Adjustment lever are possible. Combining with the adjustable viewing distance selecting lever for measuring all kinds of the viewing distances, the PD measurement is simple and precise. When the measuring operation is finished, the auto power off and memory function (can review the unrecorded data), enable to save the power and not to lose the data. The measuring range is from 48mm to 77mm. The resolution is 0.5mm, and the viewing distance is from 35cm to infinity. It can also be used in monocular measuring the left eye and right eye separately.

1. Optical principle

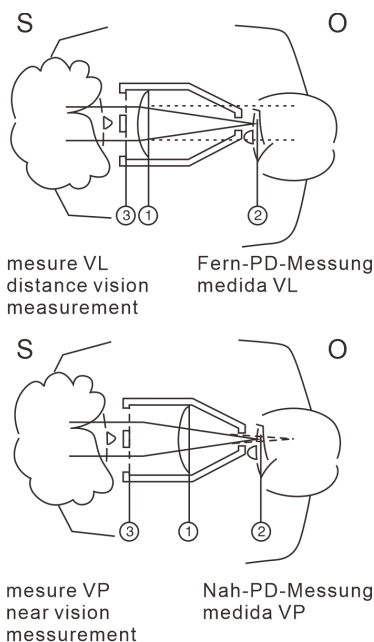
Measuring the inter pupillary distance

The Patient (**S**), with both eyes open, through a lens (3), looks at the target image.

By moving the lens, the Optician at (**O**) may change the patient's viewing distance from 35 cm to infinity. The target light is reflected on the outer surface of each cornea.

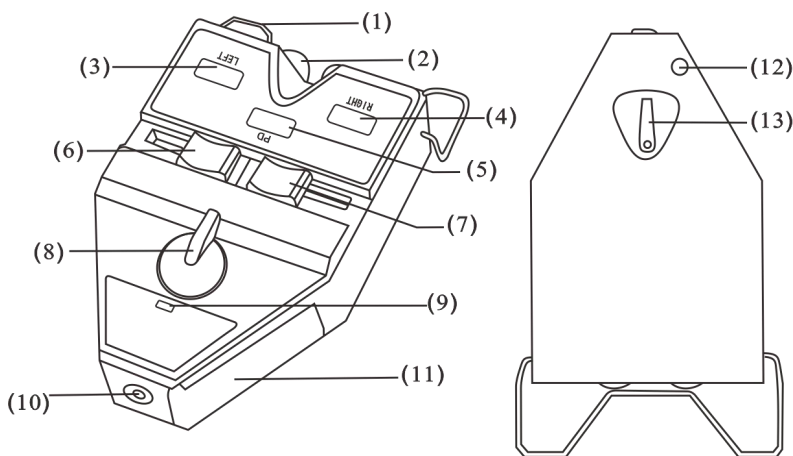
The Optician from point (2) can see the corneal reflections. Parallax is not induced by this system. This point is located on the patient's visual axis. The Optician can move the Left or Right PD Adjustment Lever (6 and 7), taking one eye at a time, to align it with the corneal reflection.

The measurements for monocular distances and for the total distance will be automatically recorded on the instrument.



2. Structure

- | | |
|---|--|
| (1) Forehead bar | (2) Nose Pad |
| (3) Display of Left PD | (4) Display of Right PD |
| (5) Display of Total PD | (6) Left Eye Monocular PD Adjustment Lever |
| (7) Right Eye Monocular PD Adjustment Lever | (8) Viewing Distance Adjustment Lever |
| (9) Digital Window of Viewing Distance | (10) Viewfinder |
| (11) Battery Chamber | (12) Power Indicator |
| (13) Binocular and Monocular Adjustment Lever | |



Important

The digital display switches off automatically if the unit has not been used for more than 1 minute and a half.

Note

The digital display for binocular viewing distance (Max.) is 77mm

Conforms to CE standards.

3. Operation

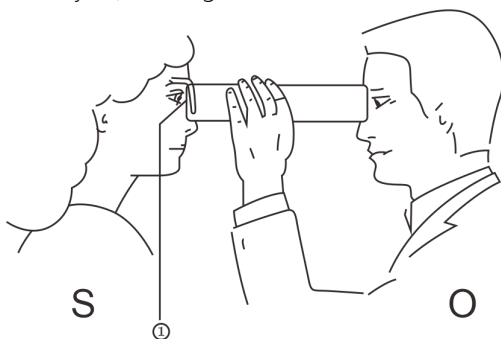
Set the viewing distance.

Hold the instrument with both hands and rest it against the patient's nose and forehead. Ask the patient to focus on the target light and the Optician move the Left or Right Eye Monocular Adjustment Lever. align the point with the centric line of the eyeball. When the measuring operation is finished the measurement results are displayed, the unit will switch itself after 1 minute and a half.

Note:

In the operating position, the operation indicator lights on.

All measurements will appear on the display (the left and right eye monocular pupillary distances, the total distance PD and the viewing distance). Such data should be recorded on the card to minimize the risk of error. In cases of defective binocular vision, a LE or RE occluder can be used to take separate measurements of each eye. (Selecting the Binocular and Monocular Adjustment Lever ,13)



4. Maintenance

Cleaning

The unit is an intricate optical instrument and should be kept clean. To avoid accidents, disconnect before cleaning. Wipe external surfaces lightly with a damp cloth using water or dish washing liquid. To avoid all danger of discolouration and incidents related to unit functions.

PRECAUTIONS TO BE TAKEN

Never use diluting agents, solvents, alcohol, benzene, acetone or any other organic or mineral solvents.

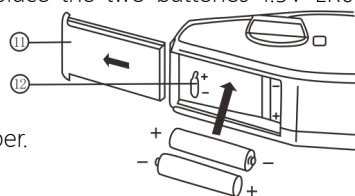
The nose pad is changeable and a spare set is provided in the box. The nose pad and the forehead bar should be cleaned after each patient. To do so, use a cloth or tissue paper moistened with an antiseptic solution nonalcoholic and nonaggressive.

Loading the batteries

Open the battery chamber cover (11) and place the two batteries 1.5V LR03 head to tail between the flexible metal strips.

Note:

If the unit is not used for a long time, please remove the batteries from the battery chamber.



5. Precautions to be taken

The unit should not be exposed to direct sunlight or any strong light source. For best results the unit should be used with a constant degree of light.

- ◆ Do not put the unit in a dusty or High humidity place.
- ◆ Protect the unit from all vibrations and sudden shocks.
- ◆ Keep well away from all chemical products and gases.

Advise to operate this unit with extreme care. Any fall could damage one of its components.

Conditions for Operation and Storage

The operation and storage temperatures of the unit should be between;
Operation: 10°C to 40°C Storage: 10°C to 50°C .

Disposal of the batteries and unit

This unit operates on 2 batteries of type LR03. We advise you to buy commercially available brand batteries instead of the low grade ones which will damage to the unit.

These batteries should not be disposed of with standard household or standard industrial waste, We advise you to organize for the collection, recycling or elimination of these batteries. Do the same for the instrument.