

Al-Mustaqbal University
Department/ Optical techniques



جامعة المستقبل
كلية التقنيات الصحية والطبية
قسم التقنيات البصرية

Medical glasses

3rd stage

By

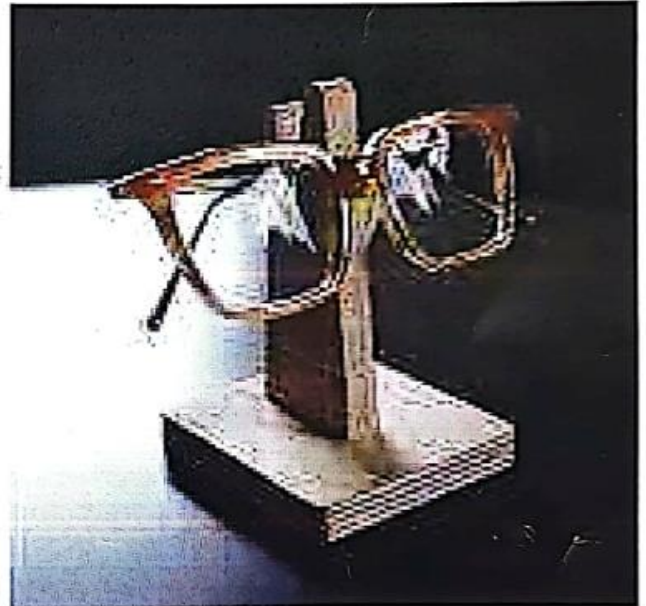
Dr. Marrwan Hisham Mohammed

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Plano Lenses.

Plano lenses are eyeglass lenses that **provide no vision correction**. They are in widespread use as **protective equipment or safety spectacles** designed to protect against eye **injuries** caused by flying dust, dirt, metal, wood chips.....etc.

They are also used in PPE (**plane protective equipment**) meant to protect against liquid chemical splashes and harmful vapors.



The following types of **workers** tend to be exposed to eye hazards:

- 1-Welders, cutters, and all types of smiths.
- 2-Wood workers, carpenters, plumbers, and pipe fitters.
- 3-Electricians, machinists, mechanics, and millwrights.
- 4-Chemical handlers and process operators.

Plano lenses must **fit a worker's face properly** in order to be effective. They should not restrict the normal vision and eye movements of the

user and must be reasonably impact protective. It is ideal that these lenses are clear, scratch free and reusable for some time.



ZHEJIANG MEGATRENDS LTD

Purpose of the Plano Lenses:

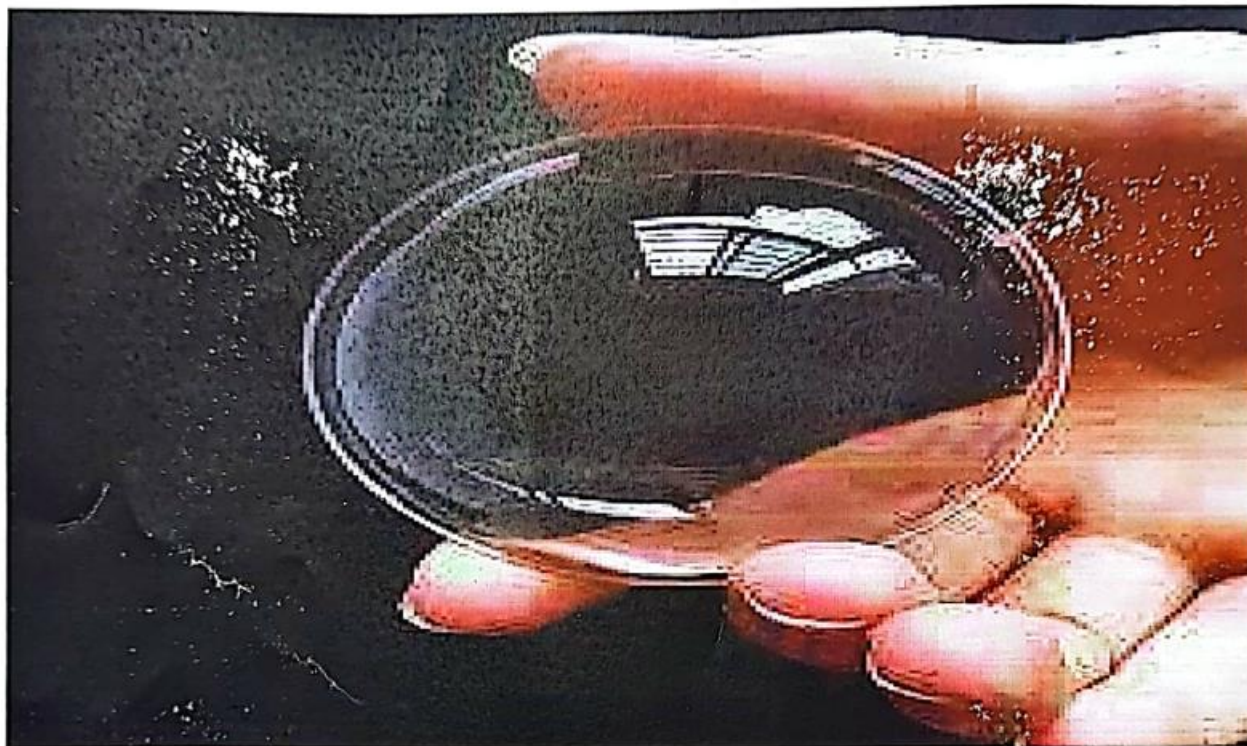
Ocular asymmetry means **the power in two eyes is not equal**. One of the eyes is weaker than the other. In such a case, when one eye is perfectly alright and another one needs prescribed lenses, Plano lenses come into the picture. So primarily Plano lenses are required when you need to cure the vision in only one eye.

- 1-When no (SPH power) is needed.
- 2-One of the eyes is blind.
- 3-For mimicry or acting.
- 4-Just to follow the Fashion and style.
- 5-Sunglass.... etc.

The cost of the Plano glasses is **not so expensive** and can be effortlessly affordable by anyone who can afford a normal **spectacle cost**.

If your prescription requires you to use a Plano lens, your glasses will always be fitted with matching quality of lens (any types of lenses) such as CR39 or polycarbonate or cosmetic lens.

This means your lenses will look and perform the same if you choose to have any additional coatings such as anti-glare, anti-scratch and blue light blocking such as MC or HMC.



What Does Plano Lenses (PL) Mean?

Plano lenses are eyeglass lenses that provide no vision correction. They are in widespread use as protective equipment or safety spectacles designed to protect against eye injuries caused by flying dust, dirt, metal, wood chips.