

## "Meniscus" the Eye Diagnostic Integrated Facility

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### **ABSTRACT**

*Meniscus, an eye diagnostic product, using semi automatic system. Design to answer eye diagnostic problem, many optician complaint of impractical process of manual diagnostic product, mean while patient also complaint of low accuracy result of automatic system. It indicated that there are some opportunity in blue ocean area. The design result must meet these criteria : practical, accuracy, ergonomic. By doing observations, authors try to create a new product development in new product line, in semi-automatic system. Meniscus is a tool that used FluidFocus Lens replacement lens mechanism. Replacement lens control mechanism is set by the operator remotely by mikrocontroler, integrated in personal computers that have been equipped with computer applications test eye chart software. These replacement methods, which still need using optician effort, are the keyword of "semi" in automatic system means. But, it doesnt mean Meniscus bury the accuracy result, FluidFocus Lens will quarantee the current accuracy result problem.*

*Meniscus is a whole process in a product design. But the different is the methods, the starting point is not from the problem identification, but from the innovative technology finding then try to find idea in product application. Beside the design & technology, ergonomy and aesthetic still the main design consideration of this product. The image design are taken from keywords "simple-futuristic" style. The design process include sketch-rendering-modelling-prototyping. This paper is an improvement of previous paper with same subject. The main concern now is to describe the adjustable frame design, so Menicus can be use for any age user with many kind face characteristics. Authors hope that these early research can be continue and produce a real product.*

**Keywords:** *product design, eye diagnosis, semi-automatic, lens, practical, accurate, ergonomy*