

An affordable 200 degree non-mydratic retinal micro-camera that (RETINALCAM) is capable of imaging the peripheral retina to detect early signs of Diabetic Retinopathy (DR) for mass screening

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Abstract

Diabetes is the most common cause of blindness, world wide. Early diagnosis allows prompt treatment and prevention of Diabetic Maculopathy (DM). The earliest signs of diabetes are detectable by an examination of the vasculature of the peripheral retina. Long before the onset of Diabetic Maculopathy (DM) and central vision loss the peripheral retina harbors the ominous diagnosis. Routine exam with a hand ophthalmoscope only reveals a 60 degree view. Early diagnosis and diabetic control will prevent ultimate blindness. Current examination of the peripheral retina is performed in the ophthalmologist's office with pupillary dilation and imaging accessed by an expensive retinal camera with periodical office visits. This is time consuming and inconvenient for the patient. The retinal-cam delivers a high resolution image of the peripheral retina through an un-dilated pupil. As the scarcity of trained specialist prevent adequate coverage for the massive global need, mass screening would lighten the load. There are 200,000 ophthalmologists and 200,000 optometrist worldwide. In the US there are 30 million people with diabetes and 7 million undiscovered. It is estimated that by that by 2030 (10 years) there will be 100 million in the US and 500 million diabetics worldwide. The inexpensive retinalcam is able to screen masses through an undilated pupil with a 200 degree view and send a high resolution image to a consultant. Artificial Intelligence is in the process of development to further enhance the technology.

medical science. His focus has targeted various biotechnology companies, biopharma, and wall street. Upon completion of his medical training, Katzman joined a multi-specialty group practice in Brandon, FL where he founded and established the group's department of ophthalmology. Katzman graduated from Boston University with a B.S. in Biomedical Engineering in 1974 and thereafter earned his M.D. from the Universidad de Guadalajara in Jalisco, MexicoSalvador in the advanced course of Ophthalmology, andnow he teaches in theadvanced course at the Universidad de Buenos Aires office (UBA) in Hospital Santa Lucia.

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Biography:

Jerry Katzman is the Company's Chief Executive Officer, President, and Chairman of the Board of Directors. Katzman has always been an entrepreneur, scientist, and pioneer in