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Portable Campimeter to Evaluate Visual Field Modifications of Subjects with Low Vision State

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The low vision state that can be installed at the visual function level causes a change in a series of important visual system parameters, as well as a decrease in the quality of life of human subjects. Mostly, lowering the visual function level should be evaluated periodically in any kind of condition (at home, medical clinic or screening center) and in all cases the investigator optometrist should identify the situations in which subjects develop visual field limitations. These visual field limitations may indicate the onset of a wide range of ocular pathologies, which, if detected early, can control procedures of management evolution or even improve with various visual aids. In the first part of the paper are presented some general aspects regarding the field of vision and also its parameters to the human visual system. The second part describes the construction of a visual field assessment system based on the primary requirement of being portable and easy to use device. In the final part of the paper are presented the results obtained using this visual field evaluation device and the way it can be programmed for several types of evaluations.