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(57) Abstract :

The present disclosure relates to a system and method for conducting pediatric eye screening for infants and young children below the age of six years who act as the users. The system (100) aims at conducting a quick and non-invasive red reflex test and consists of a device that has a light source (102) that emits light that passes through condensing lens (306) and a mirror (310) to be directed into the eyes of the users. This test is carried out in dimly lit rooms to acquire accurate results. The device also has an image acquisition unit (108) to capture videos or images of the reflection of the light in the pupils of the eyes of the users (312). The image is processed by an image processing unit (110) and observation of the symmetry and color of the reflection of the light in the eyes (312) can indicate the presence of any optical abnormalities. Additionally, a display unit (114) is used to display results after processing for better understanding of the ocular conditions.

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