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(57) Abstract :
The present invention relates to a device (100) designed to enhance the accuracy and reliability of retinoscopy eye examinations. The device comprises several integrated components within a spectacle trial frame(102). The frame includes two circular half frames with fastener arrangements for independent adjustment of geometric parameters based on the patient's size. An adjustable unit is positioned between the half frames. A photodiode sensor (106) is integrated into the frame to detect the intensity and direction of retinoscopic light directed towards the eye under examination. Additionally, the frame (102) incorporates a plurality of LEDs, (110) including red and green LEDs, to provide immediate visual feedback to the eye care practitioner regarding the alignment of the retinoscopic light relative to the eye under examination. A power source (108) within the frame supplies power to both the photodiode sensor and LEDs. A control unit (104) is included to adjust the sensitivity levels of the photodiode sensor (106) and activate/deactivate the LEDs as needed. Furthermore, the device features an LED indicator for visual feedback on its status, including power on/off and low battery indication, ensuring ease of use and maintenance.

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