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(57) Abstract:

The present invention relates to a handheld portable device (100) for eye health monitoring is a comprehensive solution designed to assess various aspects of ocular well-being. It features a rectangular housing (108) with integrated components including an airpuff unit (102) for precise measurement of intraocular pressure (IOP), an infrared camera (112) capturing high-resolution images for evaluating additional parameters like dry eye conditions and ocular inflammation, and an image processor (110) for extracting relevant information from the captured data. A sensor module measures intraocular pressure and other critical parameters essential for comprehensive eye health assessment. Real-time data presentation through a display unit (104) ensures immediate feedback to the user, while a server (106) facilitates secure transmission and remote monitoring of eye health parameters. With its intuitive interface and portable design, this device offers a versatile and convenient tool for eye care professionals in monitoring and managing patients' ocular health.

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