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A System And Method To Measure Intraocular Pressure

Tech ID: 33666 / UC Case 2024-948-0

BRIEF DESCRIPTION

A novel non-invasive method to measure intraocular pressure (IOP), offering a significant advancement in glaucoma management.

FULL DESCRIPTION

Researchers at UCI have developed a novel technology that utilizes laser speckle imaging to non-invasively measure intraocular pressure. Designed for clinical use, it provides an easily repeatable, accurate method for monitoring IOP, crucial for effective glaucoma management and postoperative care.

SUGGESTED USES

- » Regular IOP monitoring for glaucoma management in clinical settings.
- » Postoperative care for glaucoma surgery patients, providing early success indicators and reducing clinic visits.
- » Research tool for further understanding the dynamics of intraocular pressure and eye health.

ADVANTAGES

- » Non-invasive, enhancing patient comfort and safety.
- » Enables frequent and flexible IOP monitoring, overcoming the limitations of current measurement methods.
- » Provides accurate and natural state IOP readings without the interference of artificial pressures.
- » Simplifies operation and increases patient throughput in clinical settings.
- » Cost-efficient, utilizing readily available optical components for laser speckle imaging.

STATE OF DEVELOPMENT

Experimental stage

CONTACT

Alvin Viray
aviray@uci.edu
tel: 949-824-3104.



OTHER INFORMATION

CATEGORIZED AS

- » **Medical**
- » Devices
- » Imaging

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